SINCE 1947

FAIR RADIO SALES CO.

WORLD'S FINEST

ELECTRONIC SURPLUS

GOVERNMENT AND COMMERCIAL

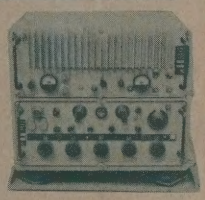
CATALOG WS-92

MANY ITEMS AT SPECIAL SALE PRICES!

SOLID-STATE MULTIMETER

HICKOK 1604M SOLID-STATE MULTIMETER, achieves high gain by using chopper to allow use of AC-coupled amplifiers; AC response to 700 MHz. Full scale ranges 0-300 VAC in seven steps and 0-1500 VDC in eleven steps, both 0.5-1.5-5 sequence. 0-150 MA DC in 14 steps 0.15-0.5-1.5 sequence. 0-500 megohms in steps Rx1 thru Rx10M. AC probe has EA53 tube. Includes AC and DC probes, two test leads, and partial repro of manual. Requires 115/230 VAC 50-400 Hz. 7.5x5.5x9.5, 13 lbs sh. Used-reparable, $85.00; Checked, $135.00

SYNTHESIZED TX-RX SET



RT-618/URC & AM-3007/URT HF TRANSCEIVER SET, synthesized set operates over 2-30 MHz USB-LSB-AM; xmit output: 100 watts PEP-SSB 25 W AM. 50 W CW. RT-618 receiver-exciter uses decade tuning down to 1 KHz increments; designed stability: 1x10^{-6} part/week. Bandwidth: 3.2 KHz SSB and 6 KHz AM. Sensitivity 1 uv for 10 DB (S+N)/N; 600 ohm audio Exciter output: 0.25 W. AM-3007 amplifier-power supply uses 8116 as PA tube and powers system from 115 V 48-450 Hz. Antenna input 50 ohms, 15 ft whip or 35 ft long-wire. With schematic info. 17.4x16x17.5, 195#. Used-reparable, $995.00
RT-618/URC only, 85#. Used-reparable, $550.

500 WATT POWER AMP

AM-2061/URT HF POWER AMPLIFIER, part of Collins-made AN/URC-32 2-30 MHz transmitter. Unit contains driver and PA stages plus transmitter gain control circuit. Amplifies 0.15 watt RF input and produces 500 W PEP output using two 4CX250B tubes driven by two 6CL6's. Has switch for bands 2-3.7, 3.7-7.7, 7.7-15.7, and 15.7-30 MHz; separate vernier controls for DRIVER and PA TUNE and Plate Current meter. TNC input & N output connections. Requires +2000 VDC 500 ma, +400 VDC 80 ma, 28 VDC unfiltered, and 115 V 60 Hz. Not standard 19" rackmount. W/schematic & block diagram. 7x19x7.8, 25# sh. Used, $235.

IR LIGHT SOURCE

PAS-4 INFRARED LIGHT SOURCE, designed to mount on top of IR night-vision rifle scope and provide IR illumination. Has 6.3" dia infrared filter glass lens which is good experimenter item by itself! Uses GE 1593 6 V prefocus-base bulb with surrounding reflector bowl. O/a 7.4x6.3 x5.5, 5 lbs. #5855-986-9708, unused, $29.95

COLLINS HF8040

COLLINS HF-8040 AUTOMATIC ANTENNA COUPLER for HF-80 Series transmitter-receivers; matches antenna to power amp over 1.6 to 30 MHz SSB-AM-CW using control logic card; 1 KW average 1260 W PEP. Tunes 3 sec average; 7 sec max. With Jennings vacuum variable capacitors USLPA-500-6 and USLS-500-5 and large variable inductor coil cooled by axial fan. Aluminum outdoor enclosure; 115/230 VAC 50/60 Hz. 15x21x39.3, 100#. GO'T-RECOND, $595.

CERAMIC INDUCTORS

on ceramic forms. NEW: #092-1143, L4 coil from T-368 Tx rated 25 uH tapped at approx 2, 8, & 15 uH. 24-turns #14 tinned-copper wire in 3"Lx2.5" dia coil; ceramic 4.5"L, 3#. $12.95

#LC44-339, 14 uH coil portion of L44 variable inductor from BC939/TN-339 tuner. 24-turns #12 tinned-copper wire in 3.3"Lx2" dia coil; Ceramic form 3.8"L plus 1.3"Lx1/4" dia shafts on ends. Mounting end plates, roller, springs, etc not available; 3 lbs sh. $12.00
* * Other ceramic inductors on page 27 ! * *

I-177 ADAPTER

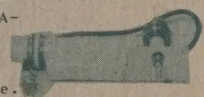
MX-949 TUBE SOCKET ADAPTER KIT plugs into and expands capabilities of old I-177 tube tester allowing it to test sub-mini round & in-line and 829/832 tubes plus additional 7-/9-pin mini, octal, loctal, and acorn sockets for other tubes. Also has 7- and 9-pin mini tube pin straighteners. In carrying case; OD green or light gray color as available. 3.8x10.5x8.8, 7 lbs sh. Used, $35.00; TB11-2627-2 TUBE TEST DATA for I-177/MX-949, 10-16-52, $6.00

990-1040 MHZ CAVITY AMP

CAVITY AMPLIFIER in grounded grid configuration for 990 to 1040 MHz. Has 2C39A output tube and was originally used in pulse service with 200 watts input and 1500 watts out from 3500 V pulsed plate voltage. Input circuit untuned and output tunable by adjusting variable capacitors; BNC connections. Similar to cavity amp in UPX-6 transponder. 3.5x4.8x3.5, 4 lbs sh. Unused w/info, $32.95

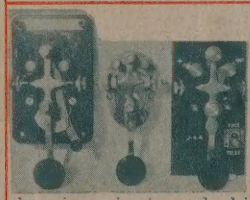
VARIABLE ATTENUATORS

VARIABLE 6-STEP ATTENUATOR, ladder network in 10:1 ratio. Attenuates 0.1 V down to 0.1 UV; 50 ohm impedance. BNC input and output connections; shaft 3/4"Lx 1/4" dia with gear drive. Silver plated; p/o 0.01-50 MHz sig-generator. 3.1x 3.8x2.5, 3 lbs. #AT101/URM25, used. $19.95



VARIABLE PISTON ATTENUATOR as used in output circuit of 2-400 MHz sig-generator; silver-plated with cable drive. Has right angle 3/4"Lx1/4" dia tune shaft and 12" coax cable on output pick-up. 1.6x 6.8x3.5. 3 lbs. #Z2/TS497, unused. $18.95

CODE KEYS



J-38 KEY with shorting bar on 4.6x3 black phenolic base; US-mfg. 1 lb. Used, $22.00

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J-38JP KEY less shorting bar and base; ball bearing pivots and white brass casting. Japanese-made for U.S. military. Unused, $12.50

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J-44 KEY, essentially J-37 key on special 5" x2.6" base w/ VOICE-TELEG switch. Used $18.

J-45 KEY with legiron (page 7); used, $20.00

GUN CAMERA

AN-N6 AIRCRAFT GUN CAMERA, takes 50 ft 16 mm film cartridge (not available) and operates at 16, 32, or 64 frames per sec. Has Wollensack 35 mm F3.5 lense and four mounting bolts. Requires 24 VDC. 3.5x3.5x6.8. 4 lbs sh. Used, $22.95

ORDERING INFORMATION
SEE PAGES 2 & 21

MINIMUM ORDER $10.00 + SHIPPING

Fair Radio Sales Co.

P.O. Box 1105 - - 1016 E. Eureka St.

Lima, Ohio 45802

419-223-2196/227-6573

24 Hr. FAX 419-227-1313

CATALOG INFORMATION

This IS the only catalog we will issue this year.

A supplement will be sent in the Fall.

FAIR RADIO SALES CO., INC.

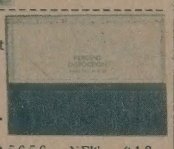
1016 E. EUREKA, BOX 1105, LIMA, OHIO 45802
TELEPHONE: AREA CODE 419 227-6573

AIRPAX

AIRPAX MINIATURE RUNNING TIME INDICATOR, mechanical 4-digit 115 V 60 Hz. 0.8"Hx1.1W bezel; fits 0.6" sq hole. #K49201-P2, NEW, $12.95

PRESSURE GAUGE, 0-60 PSIG & 0-4 KG/CM; 2.1" rd w/ 1/2" dia fitting. #PG-60PSI, NEW, $5.50

GE WIDE VIEW 0-10 MILLIAMP AC; 4.9"W x 4.5"H, fits 2.8" di hole: 1#. NEW, $15.



FS=1 MA DC, 0-50 Percent Distortion scale: 6"W x4" H with metal bezel. Fits 2.8" dia hole. #A5656. NEW. $12.

TV-2 REPLACEMENT METER, 0-250 SCREEN VOLTS, FS=1 MA. 2½" RD. SEALED. NEW $5.95

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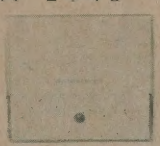
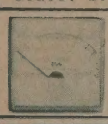
Other TV-2 METERS, used:
PERCENT QUALITY 3.5" rd. $9
SIGNAL. 2.5" dia. $7.50
GRID BIAS VOLTS. 2.5" $7.50

WESTON 1941 or Triplett equivalent: 4.3"x4.8" made f/Western Electric. Mount 2.8"d hole. Used, $10.



Specify scales: 0-5 AMP DC 0-500 ADC FS=50 MV WESTON 40-60 VDC. NEW. $15.

1-3/4" square f/1.5" holes: AUDIO LEVEL METER, FS=1 MA DC. -24 -DBM scale. #070-4056. NEW. $6.95
#ME/AM-66 SIG LEVEL 0-4 MA DC w/ red line. Used. $6.
#M1/PRC47, FS=50 UA DC, 16 increment scale plus LO-HI & INPUT V scales. Used $7.
#M/R1230 FS=500 UA black $6
#M/618S. FS=2 MA 0-10 scale white face. Used. $6.00
#BA/T-195. FS=25 MA. 0-500 scale; black face. Used $6



CLEAR PLASTIC METER, 2-3/8" sq; EMI mfg. #D3630, 0-3 VDC. unused, $4.95

DECIBELS

-20-0 and -15-0-+5 DB 3.5" dia blk face; FS=100 ua, $6

-12-0-+8 db FS=100 ua; 3.5" rd, Wacline 4586. Used. $7.

-4-0-+6 DB 1 MW, FS= 1 MA; 2.5" rd sealed, used, $4.

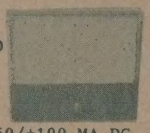
-6-0-+3 DB, FS=200 ua 2.5" rd sealed; used, $4.95

OTHER VALUES IN STOCK, WRITE

15-36 DB MW and 0-50 V Output Level scales; FS=1 MA DC, 3.5" dia. Used, $5.95

60/400 HZ REED FREQUENCY METER two reeds--one 60 Hz, one 400 Hz-- vibrate when frequency approached. 2" dia; fit 1.5" hole. #FM-TS382. used $9.95

47-84 METER ASSORTMENT, five U.S. mfg meters 2½"-3½"-up; mixed odd scales, FS-100 ua and up--no choice $10/asst



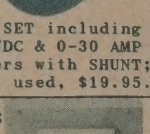
ZERO CENTER FS= 500-0-500 UA DC; 3.5"W x 3"H HOYT mfg. Indicated scale: -50/-100-0-+50/+100 MA DC, -25-0-+25 VDC. NEW, $9.95

OIL PRESSURE, 0-50 increments of 2; 2.5" rd, off-white face. #4250 NEW $4.

ME-68/PRC-14 0-200 UA meter consists of 1¼" dia meter in rubberized housing w/U-77 plug on rear. Meter easily removed. 3x1¼ dia; NEW $5.

MATCHED METERS

MATCHED METER SET including 2.5" rd 0-30 VDC & 0-30 AMP DC sealed meters with SHUNT; 3#. #M30V-30A, used, $19.95.



TRIPLETT 330-S 0-25 AMPS AC in 6x6x4 metal box w/ light; meter 3.5"W x 3"H; 3 lbs sh. NEW, $16.95

TRIPLETT 330 GP BENCH METERS, 3.5"x3" meters in plastic slanted 4x4.2 x3.8 case: 0-1 AMP AC SCALE with black & red terminals + rear fuseholder. $16.95
0-150 WATT SCALE black-red posts for Current & Voltage: 2 A 150 V max. $19.95

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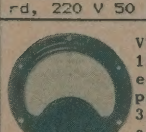
JBT 3-REED FREQUENCY METER. 58-62 Hz 100-130 VAC: 3.5" dia. #31-FHXX. NEW, $34.95

RUNNING TIME

ENGLER 3.5" rd 6-place to 0.1 hour; 120 VAC 60 Hz. #AC-200-10N, used $7.95
GENERAL TIME 2.5" rd, 220 V 50 Hz; unused $8.



VTVM METER 1 to 10 VAC scale expanded lower portion with 3.5 V centered; also 0-20 DB. 4.5" rd, Weston 643. #0899, NEW $8.95 $6.95

75-0-75 MA DC, 3.5" dia; Weston 301-57. NEW, $6.95

STORE HOURS
9 A.M. to 5:30 P.M.
MONDAY THRU FRIDAY
9 A.M. TO 1 P.M. SATURDAY

TERMS

PRICES NET, F.O.B. LIMA, OHIO
SEND MONEY ORDER, CERTIFIED CHECK, VISA, or MASTERCARD with PURCHASE ORDER for IMMEDIATE SERVICE.

We reserve the right to hold an order accompanied by personal or company check until after check clears the banks.

MINIMUM ORDER $10.00
PLUS SHIPPING CHARGES

Include sufficient money for shipping charges. (UNUSED PAYMENTS RETURNED AT ONCE.) Otherwise we will send shipping charges collect.

C.O.D. ORDERS, SEND 50% of PURCHASE with ORDER. CASH BALANCE will be COLLECTED UPON DELIVERY.

CREDIT CARD ORDERS less than $25.00 subject to $1.00 TRANSACTION CHARGE due to increased bank fees!

DESCRIPTIONS

ALL MATERIAL OFFERED IN THIS CATALOG IS IN "USED-COMPLETE" CONDITION, UNLESS QUALIFIED AND/OR NOTED AS "RECONDITIONED," "UNUSED," OR "NEW."

MERCHANDISE IS NOT OPERATIONALLY CHECKED UNLESS SPECIFIED AS "CHECKED."

EQUIPMENT DESCRIBED AS "REPARABLE"--MEANING "ABLE TO BE REPAIRED"--IS ELECTRO-MECHANICALLY COMPLETE, BUT REQUIRES SOME TROUBLESHOOTING BY THE CUSTOMER.

GOD IS JUST A PRAYER AWAY

GE WIDE-VUE® indicated 0-125%, FS=1 MA; 2.6"W x 2.6"H. Used, $7.

AC VOLTMETERS

0-5 VAC, 2.5" rd; Weston Model 517. UNUSED, $6.95

0-7.5 VAC, 3.5" rd Westinghouse; UNUSED, $6.95

0-10 VAC, 2.5 rd, $4.95
3.5" rd or square, $5.95

0-30 VAC 400 Hz, 3.5" rd; Weston 476, UNUSED, $5.95

30-150 VAC 2.5" rd sealed; various mfg. UNUSED, $8.95

AC AMMETERS

3.5" ROUND AC AMMETERS, full scale=indicated scale. U.S. mfg. UNUSED:

0-75 ACA, $12
0-125 ACA Triplett 331, $14

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0-120 AC amp, FS=3 ACA, $8.

D.C. MILLIAMPS

FS=1 MA. 0-5 V/50 MA scale 3.5" rd clear case. Used $5

0-3 MA-DC, 3½" rd. sealed. #4081, unused, $6.95

0-15 DC MA, 3½" rd sealed; various mfg. Used, $5.95

0-100DCMA 100MA. MOVE. 3½"RD.RUGG. #4265 N $6.95

0-500 MA DC, 3.5" round; various mfg. Used, $7.95

0-200 MA DC, 3.5" square; various mfg. Unused, $6.95

0-200 MA DC, 3.5" rd, GE mfg. UNUSED, $6.95

0-25 MA DC, 2.5" round, various mfg., Used, $5.95

150-0-150 MA DC. 3.5" rd Weston 2531. Unused. $7.95

0-300 MA DC, 3½" rd, clear plastic case. Used $5.95

1-0-1 MA DC, 2.5" rd sealed; various mfg. Used, $5.95

0-50 MA DC, 3.5" square; various mfg. Used, $6.95

100-0-100 MA DC, 3½" rd Weston 301; Used, $5.95

D.C. MICROAMPS.

0-200 UA DC, 2.5" rd sealed; various mfg. Used, $5.95

0-200 UADC and -8-0-+6 DB, 2½" rd. sealed, new, $4.95

FS=500 UA, 0-5-10-20 P-volt scale; 2.5" rd. Used, $4.95

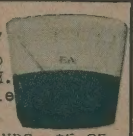
0-10 scale, FS=100 UA DC; 2.5" rd sealed. Used, $5.95

0-50 UA DC, 2.5" rd sealed; various mfg. Used, $6.95

50 UA MOVEMENT, SCALE -30, 0, 150, POINTER AT ZERO, SEALED, 2½RD USED TRC30150 $4

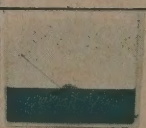
DUAL SCALE 0-3.5-140 VDC, push button for Hi range; 2.5" rd Weston 506, $6.95

DC AMMETERS by Mercer Electronics, 3½x3½; fits in 2½" dia hole. FS=50 MV; NEW.
0-300 ADC $7.95
0-800 ADC $7.95



FAN-SHAPED METERS, plastic w/ zero adj. 3" top 2½" bottom; 3" H. Fits 2" dia. hole EMI mfg. Unused.

#EMI-5 VDC, 0-5 VDC, $5.95



JEWELL MODEL 73T METERS, 3½x3 for 2½" dia hole-NEW 0-15 VDC $7.

0-200 ADC, FS=50 mv, $7.95

200 AMP SHUNT for 50 MV meter movements; 6x1.5, 1#.

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JEWEL 73T 0-200 ADC meter with GE 200 amp shunt, $15.

50 MV SHUNT for 30 amp indicated scale meter, $6.00

D.C. VOLTMETERS

0-100 VDC, 3½" rd clear plastic case; used, $5.95

0-15-600 VDC, 2½" rd black face; w/mult. code-Used $6.

FS=1 VDC, 0-10 scale; 3.5" square. Unused, $7.95

FS=2 VDC, 0-20-80 MA scale; 2.5" rd. Used, $4.95

0-40 VDC, 2.5" square; various mfg. Unused, $6.95

0-75 VDC 3.5" round, Triplet 321-JP. Unused, $7.95

FS=5 VDC, scale 0-1.5 A & 0-300 MA; 2.5" rd. Used, $5.

0-50 VDC, 2.5" round; various mfg. Used, $6.95

0-3 VDC, 2.5" rd black face Triplett IS-171; Unused $7.

0-500VDC sc. 3" sq. #231-1624 USED $5.95

100-200 VDC Hi-Lo range set Westn 1093 2.5" rd. Used $8.

0-300 VDC, 3.5" rd sealed; various nfg. Used. $6.95

0-600-1500 VDC, FS=1 MA DC; 2.5" round. Used, $5.95

0-100 VDC 2.5" dia sealed; DeJur R230. Unused, $6.95

R.F. AMMETERS

0-10 ANT-CURRENT (750 RF MA) w/thermocouple, 2.5" rd, $9.

0-15 RF AMMETER 3.5" round; various mfg. Used, $12.00

V-AMMETER

VINTAGE SIGNAL CORPS I-50 VOLT-AMMETER, terminals for 0-3-15-150 VDC and 0-3-15-30 amps DC. Old Weston fan-shape style; with leather case. 4.3x4.5x1.5, 3#. #I-50-VAM, used, $22.95

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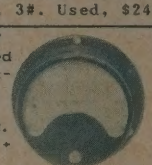
WESTON 431, FS= 5 amps AC; 100-500 A indicated. Mirror scale: 6x5x3. 3#. Used, $24



SURFACE-MOUNT METERS, unused
0-3 RF amp expanded scale; Weston 640, 4.4" dia, $12.

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0-15 AMPS DC 3.5" dia surface mount, $10

DC AMMETERS

DC AMMETERS, FS= indicated:
0-3 ADC, 3.5" rd, NEW, $9.
0-15 ADC, 3.5" rd; GE, $12.
0-30 ADC, 2.5" rd; NEW $12.
WESTERN ELECTRIC 3.5" round clear plastic case; used:
0-10 ADC $10. 0-15 ADC $10

BATTERY CHARGE FS=10 A, 6 A redline; 2.5" rd. Unused $6

DC AMMETERS, FS= 50 MV:
0-200 ADC 2.5" rd; NEW, $7
0-1500 ADC 3.5" rd used $8

0-150 A/0-75 V

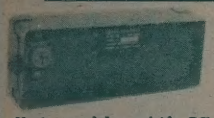
DC DUAL SCALE, 0-150 ADC/0-75 VDC FS=150 MV; zero adjust. 2.3x2.8, #JB-15075 NEW $5.95

HF RECEIVERS

Limited supply of popular HF receivers as available:

R-1051/URR HF RECEIVER, solid-state 2-30 MHz LSB, USB, ISB, AM, CW, & FSK in 0.5 KHz increments or continuous when using vernier; 500 KHz IF. 50 ohm input impedance; 600 ohm audio. Highly stable frequency control; rugged-shipboard design. 7x17.4x18.9, 80 lbs sh. (UPS in 2 pkgs). Used-checked w/book, $795.
R-1051B, later model of above; Checked, $895

PRC-77 DC CONVERTER



U-383/VR POWER SUPPLY CONVERTER for RT-841/PRC-77, clips onto RT-841 like battery box allowing operation from 24 VDC input rather than 12 VDC. Not usable with RT-505/PRC-25 unless bias voltage modified. 10x4x2.5, 4 lbs.
Used, $22.95; CONNECTOR for U-383, $6.00

UHF ARRAY

AS-1405/PRC-41 DIRECTIONAL ANTENNA ARRAY designed for 225-400 MHz, but usable to 1 GHz. Consists of 9 radial pairs, 4 of which are adjustable, on 27.8"L spacer bar; maximum width of array: 30.9". Mounts to AB-777 mast which telescopes in length from 28.3" to 78.3". Also included is mast swivel adapter to vary the angle of the array and vinyl carrying case for AS-1405. 20 lbs sh. Used, $75. (or $60.00 if purchased with RT-695/PRC-41.)

DOLLAR DAZE

PLEASE ORDER BY NUMBER. Unit prices only as indicated. Look for more DOLLAR DAZE throughout this catalog.

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45-85 3AG 1 amp FUSES 10/$1; SLO-BLO 3AG 1 amp, 10/$1.25;

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41-81 LOUD BUZZER HORN as used in smoke alarms; 2" dia x1½". 6 VDC $1.25 ea; 12 VDC $1.35 ea; 115 VAC $1.45 ea

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52-90 ATARI COMPUTER GAME SWITCH BOX; select "TV" or "computer". 300 ohm impedance. NEW, $1.50 ea

KEY-LOCK ASSEMBLY for cabinets, etc. in which key turns 4.8" long shaft & catch tab. NEW, $1.95 ea 51-89

23-77 BRASS COUPLINGS for 3/8" dia. x 3/4" long shafts. 3 for $1.00

PHONE MODULAR SPLITTER, fits wall mod jack; adds 2nd outlet for computer or answer machine, $1.95 2/$3 48-87

50-88 Miniature LEVEL METER, FS=100-0-100 microamp; 7/8" sq., flange mount 1-3/16" o.c. $1.50 ea

MILTON BRADLEY TOY HEADSET w/boom mic--NO receiver elements; 6 ft cord & mini-RCA plug. NEW $1.50 49-87

53-90 AC LINE CABLE ADAPTER, for 3-cond plug to 2-cond outlet w/ground; molded light grey. 3 for $1.00

RUBBER EQUIPMENT PADS, 5/16" dia self-adhesive; 40 per sheet. 2 sheets for $1.50 47-86

54-91 NOISE-ACTIVATED SWITCH w/sens adjust & mic; 6 VDC in, 2"x2". $1.25 ea

20-1400 MHZ WATTMETER

TS-118A WATTMETER, thermocouple type measures RF power over 20-1400 MHz AM-FM-CW in ranges 20 to 100 MHz (2-300 W), 100-300 MHz (2-500 W), 300-700 MHz (2-250 W) and 700-1400 MHz (2-125 W) depending on thermocouple. DC millivoltmeter indicates voltage developed and the reading is translated in RF watts by calibration chart. SWR less than 1.25:1; input impedance 50 ohms. Operable as dummy load when used without thermocouples. Includes thermocouples MX-1781-1782-1783-1785, tune shunt MX-1784, LC:N conn-adapter UG-999, and transit case. 8.5x6x20.5, 48 lbs. Used, ~~$185.00~~ $165.00
MANUAL for TS-118A, partial repro, $8.50

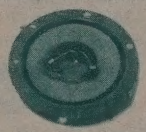
12 V INVERTER

12 VDC to 115 VAC 60 Hz 200 WATT INVERTER, will run small appliances from 12 VDC auto system or for emergency 12 V battery back-up for sump pump, lights, or power tool. 400 WW intermittent; will start high-surge current (600 W) devices. Square-wave output proportional to input voltage. Frequency approx 60 Hz but varies with load. Has 3-cond outlet in rugged 3x7.5x4.8 metal case; 7#. #RC-12V200, NEW $139.50; 2/$250.00

VACUUM CONTACTORS

JENNINGS HIGH VOLTAGE SPDT RF VACUUM CONTACTOR for high power transmitting and industrial process equipment. Actuated by 26.5 VDC and switch rated 300 amps @ 2.5 KV peak. Insulation and switch peak test voltage: 10 KV 60 Hz. In sealed metal enclosure w/mount flange; connector not available. 15x5.3x9.5, 22 lb sh. #RF20BLDE8121-1. unused. $225.00

MAGNETIC RING



3.5" dia x 5/16" thick MAGNET with 1.9" dia open inner circle has about an 8 lbs lift capacity. 5" dia metal casing with mount flange protects and isolates the magnet; two wires attach to spring-loaded brush contacts. Useful as magnetic portable antenna mount or in robotic, audio, or science projects; 2#. #MAG-S91, $2.50; 4/$8.00

HY-GAIN CB BOARD

HY-GAIN CB TRANSCEIVER BOARD on incomplete chassis with crystals, IF transformers, RF coils. We are selling the board as shown which we sold out of a few years ago. This time you will get MORE because chassis has other parts in varying degrees too confusing to itemize. Similar to Hy-Gain boards converted to 10 meters (see 73 Mag, 2/84) and 6 meters (73 Mag, 2/85). Board 6.4x6; 4 lbs sh. #PTBM036AOX, AS-IS, $5.95; 2 /$10.

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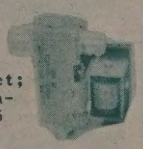
Hy-Gain CB BOARD & CHASSIS with REMOTE CONTROL BOARD; CB board is different from above. #HG-CB/RM, AS-IS, $6.95 ea; 2/$11.50

COAXIAL RELAYS



COLLINS #410-0193-60 SPDT 1 KW COAX RELAY with auxiliary contact; 28 VDC coil. "T" style configuration; three N connections. 3x3.5 x1.8, 1 lb sh. Used, $27.95

FXR SPDT COAXIAL ANTENNA RELAY, 28 VDC coil; DC to 1.5 GHz. Has three BNC connections; 1.3x1.5x1.3, 1 lb sh. FXR #300-10031, used, $11.95

PRC-25 TRANSCEIVER

RT-505B/PRC-25 BACKPACK TRANSCEIVER, 30-75.95 MHz FM in bands 30-52.95 MHz (Lo) and 53-75.95 MHz (Hi) using 920 channels with 50 KHz spacing. Transmitter output: 1.1 to 2.0 watts. Has 150 Hz squelch tone. Transistorized except for 2DF4 tube in power amp. Requires 3 VDC 0.4 amp and 15 VDC 1.4 amp supplied by BA-4386 12 VDC battery. RT-505B has modified A25 receive audio module for broadband use with C-7673/PCC-1 rectifier control (pg 19) and CU-2194 diplexer (pg 35); 4x11x14, 18#. Used-complete, $275.
MANUAL f/ RT-505/PRC-25, partial repro, $20.

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AT-892/PRC-25 RIBBON ANTENNA, used, $12.00
AT-271/PRC 7.5' SECTIONAL ANTENNA, used, $10
AB-591/PRC RUBBER BASE for AT-271, *WRITE*
ST-138/PRC BACKPACK HARNESS for RT, used $12
CW-503/PRC ACCESSORY BAG for PRC-25, used $6
H-250 HANDSET or equal for PRC-25, used, $17

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INCOMPLETE PARTS CHASSIS for RT-505 without front panel and some modules. Does include modules A1 thru A10, and A13-15-19-20-24-25, 2DF4 tube, 447138 tuner, relays, filters, & other parts. AS-IS for parts recovery only; 7 lbs sh. #CH-RT505, used "AS-IS", $59.50

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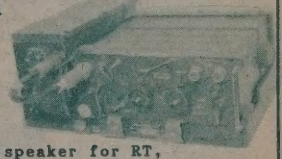

OA-3633/GRC VEHICULAR RADIO GROUP, includes RT-505B and AM-2060 audio amp-power supply with CX-4655 interconnect cable. RT-505 sets on & plugs into AM-2060 which has speaker for RT, remote antenna tuning for AS-1729 antenna and allows 24 VDC vehicle electrical to power PRC-25. 15x12x7, 39 lbs sh. Used, $350.00
AM-2060 with CX-4655 cable ONLY; may be used with RT-841/PRC-77 also. Used, $109.50
MT-1029 VEHICLE MOUNT f/OA-3633, used $29.50
TM11-5820-498-12 OPERATORS MANUAL for OA-3633/A, GRC-125-160, VRC-53-64; repro $10.

RF WATTMETER & COUPLER

RF WATTMETER with DIRECTIONAL COUPLER CU-987/GRC-110A, p/o AN/TRC-75; designed for 100 and 1000 watt full scale readings. Directional coupler connects into RF line and provides four outputs: 100 and 1000 watts Forward and Reflected. Reverse function used 100 W range and Forward used 1000 W range in original configuration. Panel has 2.5" dia meter calibrated for 100 and 1000 watts, 5-reed 100-130 V 400 Hz freq meter, two SPST panel and two rotary switches and 150 ohm pot. With schematic. Panel 7.3x5.5x2.5, coupler 4x2.5x2; 4 lbs. #RFMTR/TRC75, used, $29.95

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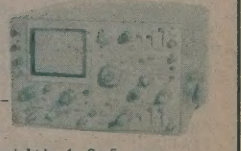
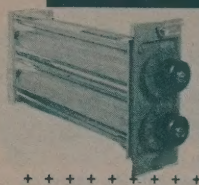
CU-987 DIRECTIONAL COUPLER ONLY from above, a lower power version of coupler used in Collins 312B4/302C3 S-Line wattmeters; two N conn. 2 lbs sh. #542-0914-002, used, $22.

DC TO 150 MHZ SCOPE



TEKTRONIX 454A PORTABLE DUAL-TRACE SCOPE with DC to 150 MHz response, 2.4 ns risetime, and 8x10 cm display. Select channels A or B, A+B, A-B alternating, or chopped. Calibrated deflection 10 mv/div to 5 V/div full bandwidth 1-2-5 sequence plus vernier; 2 & 5 mv at reduced bandwidth. Input R & C: 1 megohm paralleled by apprx 15 pf. Calibrated time base 20 ns/div to 5 S plus vernier, 1-2-5 sequence. Sweep Delay 10 ns to 50 s. Also 1 V 1 KHz Amplitude and Time calibrator, X10 magnifier and Beam Finder. Less front cover. Requires 90-136/180-272 VAC 48-62 Hz; 7.1x12.5x20.5, 36# sh. Used-reparable, $495. Checked, $595.
MANUAL, partial repro, $25 w/set purchase

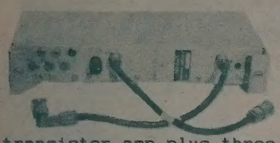
145-165 MHZ BANDPASS



We "converted" some F-195 TUNABLE TWIN CAVITY BANDPASS FILTERS so that they cover 145-165 MHz including the 2 METER ham radio band. All are gold-plated, have tuning knobs, dials, & N connections; o/a 7x2.5 x9.5, 8#. #CONV-F195, $32.

+ + + +

IF AMP



70 MHZ IF AMPLIFIER ASSEMBLY, no schematic available but has seven transistor amp plus three other transistors which seem to be in AGC circuit. Amp was fed a signal from 60 to 100 MHz. Gain varied over range from 28 at 56 MHz, 45 at 70 MHz, to 12 at 100 MHz using 2 MV signal input. Has IF Gain pot, five trimmer capacitors, and typical transistors 2N2218, 2N708, RAY 7012, and 2N918. BNC RF connections & DB-15 connector; 1.7x10x4.3, 2 lbs. #IFA-652590, used, $10.95

SWR INDICATOR CIRCUIT

STANDING-WAVE RATIO INDICATOR CIRCUIT, assemble a SWR meter using this 1¾" square 0-10 scale (FS=2 MA) meter with filters and rectifiers and a modified Schering bridge. One pair of bridge arms is resistive, the other capacitive. In theory the bridge circuit is balanced when the antenna is tuned to 52 ohms resistive resulting in a zero reading on the meter. SO-239 connector. Bridge: 2½x2½x1; 2 lbs. #M701/CU-991, $8.95

XTAL OSC-OVEN

Precision 16.384 MHz oscillator and temperature controlled oven using 8.192 MHz crystal, 54S00 IC, and 16 transistors. (Note: 16384 Hz is 2 Hz to 14th power.) PC boards in 3x3x3 metal box. #QK1881V-S1, NEW, $6.95

455 KHZ BFO

PERMEABILITY-TUNED 455 KHz BFO COIL from R-392 receiver. Originally used with 5-55 pf variable capacitor but fixed cap may be substituted. Oscillation without parallel capacitor: 452-480 KHz. Good basis for BFO for any receiver with IF in 450-465 KHz range; with schematic. 3.3"Lx1.5" dia, 1 lb sh. #BFO-T602/R392, used, $14.95

+ +

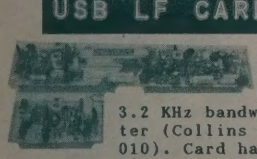
455 KHz IF AMP from R-392, five IF transformers and six 26A6 tubes w/shields; connector cut. 3x4.8x9.8, 4#. #IF-R392, used, $12.95

R-392 MODULE

TRANSISTORIZED AUDIO MODULE for R-392 receiver designed to replace 26A7 (V608) tube in audio section; seems to work best in W.E.-made R-392. 1 lb. #SMC-356720 or equal, checked, $24.00

R-392 PLUG Hard-to-find 9-PIN FEMALE GRC CONNECTOR: UW1220FB17, unused, $9.

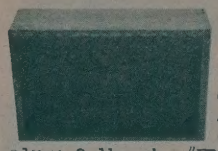
USB LF CARD RECEIVER



62 to 106 KHZ UPPER SIDEBAND CARD-RECEIVER with 455 KHz USB 3.2 KHz bandwidth mechanical filter (Collins F455A 23C/ 526 9665 010). Card has 3 dual-gate FET's as mixer, IF amp, and product detector. Also 2-stage audio amp with active lo-pass filter followed by UA716C audio IC. Cards require input of 519-563 KHz originally supplied by crystal oscillators (see below) and 455 KHz input product detector. Add your own RF amp and modify to make VLF receiver. W/ transistors 3/2N929, 3/3N187; requires 18 VDC. 0.8x 8.8x2.3, 2 lbs sh. VLF-USB-79716, used, $30. 22-PIN EDGE CARD CONNECTOR for above, 3/ $2.

CRYSTAL OSCILLATOR CARD f/ above, our choice of xtal frequncy in 519-563 KHz range. Utilizes Colpitts transistor oscillator, "locked divide by 4" oscillator and buffer. Transistors 2/2N3933, 2N4074; requires 18 VDC in. #XC-7759, used w/ schematic & connector, $4. #XC-7759-455, as above except 455 KHz, $7.50

SPEAKERS



BOOKSHELF SPEAKER in walnut-grained vinyl-covered 7x10¼x2¾ enclosure. Has 4" dia 16 ohm 1 W speaker and 6 foot cord with RCA plug; 2 lbs sh. #ER-WD-SPK NEW $4.50 ea 2/$6.

SPEAKER PAIR in PLASTIC ENCLOSURES, each 4" dia 16 ohm 1 W speaker in attractive 6⅝x6⅜x5¼ enclosure with 6' cord and RCA plug. White & black plastic per pic; 4 lbs sh wt. #ER-PL-SPK-PR NEW $3.95/pr

SPEAKER WRAP for assembling 10½x20x4 walnut-grained vinyl-covered enclosure; no grill cloth. 7 lbs sh. #ER-SPK-ENC, 2/$2.00

3 X 5 SPEAKER, 2 watts with 1¾" dia magnet. Specify 8 or 16Ω 1 W; 1 lb, $1.35; $95/100

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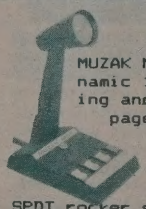
100 - 500 LOT PRICING available on all above.

PAGING MIC



MUZAK M8L MULTI PAGE MICROPHONE, dynamic 150 ohm mic is designed for paging and features switching for three page zones plus one "all-call" switch. Usable with amplifiers having input impedance of 50 to 250 ohms; 60-10000 Hz frequency response. With four SPDT rocker switches and 10 foot 8-conductor cord; 3 lbs sh. #M8L-MIC, NEW, ~~$24.95~~ $19.95

TRANSISTOR AUDIO AMP

TRANSISTOR AUDIO AMPLIFIER w/5-transistors, on-off-volume and tone controls. Inputs for ceramic or crystal phono cartridges. Other possible uses as home-brew receiver, intercoms, child's projects. Use with 8 or 16 ohm 3" or 4" speaker. Req 6-9 V AC or DC; with schematic. 1½x2½x3¼. #ER-10-1231 NEW $2.95; 2/$5.00 -100, 500, 1K LOT QUANTITY PRICES AVAILABLE-

CS-76 CANVAS BAG, handy "six-pack"-size (7x10x8) perfect for carrying parts at ham-fests, ammo for the hunter, etc. Has adjustable strap; 3 lbs sh. #CS-76, $4.00

#CW-189, like CS-76 but 9x10x10, used $6.00

8 FT BALLOON

NEOPRENE WEATHER BALLOON made for the government by Kaysam; 1000 gram net balloon weight translates to about 8 ft dia inflated size which our picture verifies. 5.5"Lx1.5" dia inflation nozzle, 3.5" dia neck. October 1971 date code; 3 lbs sh. #BAL-75GH, unused, $16.95; 2/$30.

RACK W/ PLEXIGLASS

BUD SERIES 60 RACK CABINET features front and back smoked plexiglass doors; panel size 83"Hx19"Wx24"D. Has louvered sides, perforated top & castor set. O/a 91.5"Hx28"Wx28"D; 350 lbs sh. #60-8319, unused, $400.

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STEEL CABINET, rack space 19"W X 65.8"H rack; removable rear panel. O/a 72x22x24, 325#. #RRT-1972, used ~~$85~~ $65

MCLEAN DUAL BLOWER RACK PANEL w/ air filters & AC cord; 23x19x8.3, 35 lbs sh. NEW $29.50

EQUIPMENT CART

SUN EQUIPMENT STAND, low-cost stand designed to hold upto to three automotive analyzers, but could probably be adapted for use as scope cart. Telescoping tubular frame adjusts for equipment 18"-26" wide and is tilted for in-use viewing. Handy 16"Wx21"D bottom storage shelf; 3" wheels. Shipped unassembled. O/a 36"H, 12 lbs. #CP-7750, NEW, $16.95

LARGE CASES

LARGE ALUMINUM TRANSIT CASES with rounded corners, locking hasps, and side handles; heavy duty construction designed to survive the abuse of military radio personel. Lids have locking compartments for cables, etc.

CY-3883/PRC-41, 15.5"Hx35"W x26.5"D including 4.5"H; top. Has removable rubber insert; 66 lbs. Used, $45.

CY-3700/PRC-47, 20.8"Hx28"Wx 17"D including 6"H top. Spot welded internal compartments plus two nesting trays. 66#. Used, $35.00

CY-693/PDR ALUMINUM CASE, four compartments 13x6.5, 3.5x4, 7.5X4 & 1.8x4; may be removed for 13"x10" size x9" deep. Hinged top with hasp fastners; 12 lbs sh. Used, $8.00

CY-712/PCM ALUMINUM TRANSIT CASE, heavy aluminum with recessed hasp fastners and retractable side handles. Interior 12.5"Hx20.3"Wx13"D; 21 lbs sh. Used-clean, $22.

#CS-TS147 ALUMINUM CASE, hinged with hasp fastners and sturdy top handle. Interior bottom 7.5"Hx16.7"Wx10"D; top 4"H. Nice storage for power, tools, etc; 15 lbs. Used, $12.

STORAGE CASES

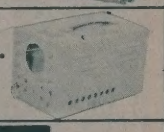
PLASTIC STORAGE CASE, rugged but light with hinged top, hasp fastner, and recessed top grip. Two glued spacers; interior 7.5x6.3x5.3. Handy item for shop; 2 lbs. #CS-PL-SR, used, $2.25; 2/$3.50

FIBERGLASS CASE with carrying handle and six hasp fastners; lid not hinged. Lower section 13.5x8x9; cover 3.5" deep. Has fittings and rubber shocks to be removed. #FIB-SR-684 11 lbs sh; used, $7 ea; 3/$15.

PRINTER STAND, 13x24 top deck plus rear storage area. Dark brown; steel. O/a 24"Wx 25"Hx21"D, 38 lbs sh. #PSD-MI2, used, $15.

PRINTER STAND/COMPUTER CABINET 24.5"Wx12"D top plus large bottom-hinged door to access interior. On-Off switch for 6-outlet AC strip w/8' AC cord. Black-krinkle finish; 23.8"H, 50 lbs. #PS-TTY, unused, ~~$22.95~~ $14.95

CY-1344 ALUMINUM TRANSIT CASE, 18.6"Hx21"Wx12"D with hasp fastners & spring-loaded side handles; 30 lbs sh. Used, $20.



CS-1060 CASE w/CHASSIS, p/o small scope; o/a 8"Wx7⅝"Hx13"D. Front has cut-out for 3"CRT; some parts on chassis. Handle on top; 10 lbs. Used, $8.95

PROJECT ENCLOSURE

STEEL ENCLOSURE with metal feet and hasp fastners. 6.5"Hx9.3"W x5"D; 5 lbs sh wt. Used. #ENC-RM-39, $3.00 ea; 2 for $5.

#ENC/ROMII ENCLOSURE, designed for portable test instrument; cover telescopes and slide-snaps over slant-style bottom. Top handle and rubber feet on back and bottom. Slanted section 2"D min to 3.8"D max; o/a 8x8.5x5.3, 3 lbs. Unused, $5.95

ALUMINUM ENCLOSURE & frame from antenna coupler. Adapt as-is or re-work; 7.5"Hx10"Wx10"D + removable 4.5"x2.5x3"D front antenna insulator. Cut-outs for 1.8" meter and two connectors; 8 lbs. #ENC/180L3, $7.00

R-390A/URR HF RECEIVER

R-390A/URR RECEIVER famous military set covers 0.5 to 32 MHz AM-CW-MCW in 31 one MHz bands read directly on mechanical digital counter. 455 KHz final IF; has four Collins mechanical filters allowing 2-4-8-16 KHz selectable bandwidth. Calibration points every 100 KHz; also BFO, AGC, dial locks, 600 ohm audio out, Line and Carrier Level meters. Rackmount; no covers. Requires 115/230 VAC 60 Hz. 10.5x19x16.8, 95 lbs (UPS 2 pkgs). Used-reparable, less meters, $175.
CHECKED, Less meters, $295.
MANUAL, maintenance, partial repro. $15.00

R-390A "AS-IS", less meters, 3TF7, BFO, and covers; "visually inspected" only, $135.00

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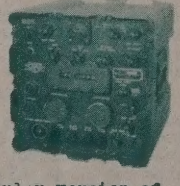
R-390A R-392 R-648 PARTS

REPLACEMENT ASSEMBLIES & PARTS for the popular military receivers R-390A (A), R-392 (B), and R-648/ARR-41 (C). SPECIFY receiver type and chassis designations of parts!

POWER SUPPLY without tubes		$30.00 (A)
AUDIO SECTION:	$28 (A) $30(B),	$15(C)
CRYSTAL CAL CHASSIS,		$30(B)
CRYSTAL OSCILLATOR (less crystals)		$20(A,B)
DYNAMOTOR POWER SUPPLY,		$20(C)
IF SECTION, CHECKED:	$35(B)	$90(C)
RF AMPLIFIER SECTION,		$15(C)
RF DECK, complete:		$95(B)
RF/IF TUNER LESS VFO,		$90(C)
RF OSC ASSY LESS CRYSTALS,		$15(C)
SPECTRUM GENERATOR,		$15(C)
VFO, (COLLINS):	$60 (B)	$40(C)
VFO, (NOT COLLINS),		$40 (B)

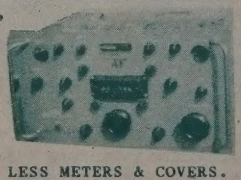
POWER TRANSFORMER only, used, $20.00 (A)
AUDIO TRANSFORMERS, $5.00 ea (A,B,C,)
BEAT FREQUENCY OSCILLATOR, $20 (A); $15 (B)
COUPLER, OLDHAM, small only, $4. (B,C)
CRYSTALS, BAND, $10 ea (A,B,C); 5/$35 per Rx
CRYSTAL, 200 KHz CAL, $18.00 $10 (A,B)
DIAL, COUNTER $15.00 (A,B,C)
FILTER, MECHANICAL 9.4 KHz, $25.00 (C)
" , MECH, 2 or 4 KHz, $35.00 ea (A)
" , MECH, 8 KHz, $27. 16 KHz, $20. (A)
GEARS #39 or #21, $6 (A); others, $3 (A,B,C)
GEAR CLAMPS, large $3. Small, $1.50 (A,B,C)
HANDLES per pair, $7.00 (A,C)
KNOBS, small or medium size, $1.50 (A,B,C)
" , MHz/KHz large, $6 (A); $4 (B); $5 (C)
POTS: RF, IF, AUDIO GAIN, $2.00 ea (A,B,C)
RF-IF TRANSFORMER (specify #): $8 ea (A,B,C)
SLUGS only (specify #), $3.00 ea (A,B,C)

0.5-32 MHZ RECEIVER



R-392/URR RECEIVER, 0.5 to 32 Mhz AM-CW in 32 one Mhz bands using mechanical digital tuning. Triple conversion on lower 8 bands, double on others. Selective bandwidth 2-4-8 Khz; 100 Khz crystal calibrater points. With 25 tubes of 26A7, 26A6, 26C6, 26D6, 6AJ5, 12AU7. Requires 24-28 VDC 5 amps. Rugged vehicular version of the famous R-390 receiver. 11½x14¼x11; 58 lb sh wt. Used-reparable, $165. Checked, $235.
MANUAL for R-392, partial repro, $15.00
LS-166 SPEAKER for R-392, used, $15.00
115 VAC POWER SUPPLY f/R392-no connector $25.

COLLINS R-390 RECEIVER



R-390/URR HF RECEIVER, predecessor of the R-390A, but does not have mechanical filters. Function switch has SQUELCH position; Collins or Motorola-made for Collins as available. Requires 115/230 VAC 50-60 Hz; LESS METERS & COVERS. 10.5x19x17.3; 92 lbs. (UPS in 2 packages.) Used-reparable, $180. Checked, $300.00
SERVICE MANUAL f/R-390 partial repro, $15.
COVERS for top & bottom, $15.00/set.

HF RECEIVER AMPLIFIER

HF LINEAR RECEIVER AMPLIFIER, 2 to 30 MHz dual channel solid-state unit amplifies RF signals for receivers to "pull in" the weak stations for the shortwave listnener. Each channel is capable of 1 to 1.5 watts with gain of 20 DB. Ideal basis for QRP projects, receiver pre-amps and exciters! Tuned circuits could even be put between the cascaded channels. Each channel consists of plug-in modules: input bandpass filter, preamplifier, power splitter (2 emitter followers), power amp, and monitor amp. TO-5 style transistors; connectors are TNC but could be replaced with single hole mount BNC. Aiken mfg; schematic not available. Requires 115 VAC 50-400 Hz; 3.25x19x19, 30 lbs sh. #AE-3300-42889, used-reparable, ~~$125~~ $99.50

225-400 MHZ DETECTOR

225-400 MHz DIRECTIONAL POWER DETECTOR used in AM-6155 UHF power amplifier. Rated 65 watts forward; 15 watts reversed. Forward/reversed DC output proportional to output/mismatch; sub-mini connectors provided. "N" RF connections; 4.5x1 x1.3, 1#. Coaxial Dynamics #3023, used, $17.

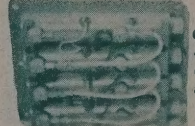
COLLINS 516E2 SUPPLY

COLLINS 516E2 DC POWER SUPPLY for KWM-2 and S-Line transmitters; requires 24-28 VDC input. Solid-state; will not power 30L1. 10x6 x7.5, 24 lbs. Used, $49.50

MILITARY BATTERIES

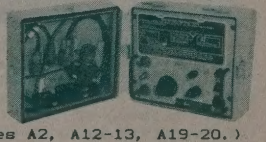
NOT RECHARGEABLE.
BA-40 for BC-620 /BC-659 receive section, +90 and +1.5 V ; 7.4x5.4 x4, 6#. "GOOD", $8.95; "Weak" $4.
BA-48 for Rx section of RT-77/GRC-9; 6-CD & 60 A-cells, 1.5 & 90 V. 10x2.2x4.8. "GOOD" $8.95; "Weak" $4.
BA-216, 12/ "F" cells, 4.5 VDC; 4/80 date. 3.9x3x6, 5# sh. "GOOD", $3. "Weak" 2/$3.
BA-279 for PRC-8-9-10 Rx-TX; 8 CD, 45 B, 45 AA, 8 C-cells, +1.5-67.5-135, -6 VDC. 5/79 dates; 8.3x2.3x8.3, 7 lbs. $7.95, 12/$72.
BA-314 for PDR-27F, 45 FL-3 cells, 67.5 VDC; 6/81 date. 2.8x1.3x2.5; 1#, $1.25; 12/$10.
BA-416 f/ PDR-27C, +22.5-67-90-135 V; 10/84 date. 4x3x2.8, 2#. $5.95; "Weak", 2/$
BA-1277, 3 R-42R mercury cells, 1.3 V; 5/83 date. 2.4x1.3x2, 2#. $2.50; "Weak" 3/$2.
BA-1393, 12 RM-3WA mercury cells, 13 VDC; 2/82 date. 5x1" dia, 1#. $2. "Weak" 3/$1.75
BA-4386 for PRC-25-77, 12.5 VDC; 3/80 date. 3.5x9.5x2, 3 lbs. "WEAK" only, 3 for $5.00

QUAD CAVITY



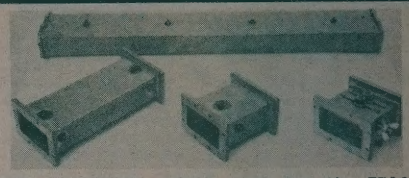
QUAD CAVITY ASSEMBLY, four 4"Lx0.8" dia gold-plated cavities "ganged" as chain amplifier. Originally used in aircraft transponder at 1030 MHz. Each cavity has adjust screw; no further info. 4.3xx5.3x1.3, 2 lbs sh. RCA #4085-B/A, used, $29.50

PRC-25 MODULE TESTER



AN/GRM-55 TEST SET, use to check test points in modules of RT-505/PRC-25 transceiver and to isolate circuit problems. (Indirect tests only of modules A2, A12-13, A19-20.) Includes TS-1755 test unit, MX-4622 probe, CX-8593 cable assy and CG-409 BNC cable. Requires 12.5 VDC 1 W per 5 sec test. 5.5x7x8 10 lbs. Used w/operator's manual, $75.00

3.7-4.17 GHZ WAVEGUIDE



COPPER WAVEGUIDE, 2"x1" size for the 3710 to 4170 Mhz range; Western Electric manufacture, removed from telephone installations. Filters are tuned to preset frequency; adjusting screws can be reset to desired frequency. No further information available.

#1303-Series FILTER, two top and two side adjust screws; 6-11/32"L, $12.95
#1300-Series FILTER, one top and one side adjust screw; 3-5/32"L, $8.95
#400-Series TUNER, two ¼" dia adjust screws; 2½" long. $9.95

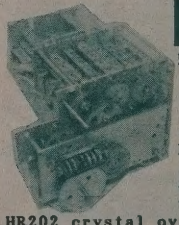
#J368330K1 XMTR AMPL, dual section 2-5/32" and 1½" variable internal port; o/a 4½"L, $14.95

#ED63919-31 AMPLIFIER with 416B tube with 3/8" dia screw port adjacent to tube grid cap; assembly silver-plated brass. O/a 5¾x3⅜x1-3/8, 4 lbs sh. $27.95
Mating 6-prong connector, $2.00

DA-43 DUMMY LOAD

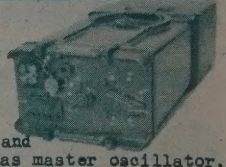
DA-43 DUMMY LOAD WATTMETER, has Series Capacitance MMF selector 100-200-300-400-OUT for switching four CRL 851 100 pf 7500 V capacitors. Also Series Resistance Ohms selector for switching 4-8-10-20-40 ohm 70 watt resistor bank. With 0-100 watt scale meter, cooling fan, & power cable. Requires 28 VDC; 9.5x12x8.5, 17# sh. Unused, ~~$90~~. $75

R-390A RF DECK



RF AMPLIFIER DECK removed by the military from R-390A receivers. We are selling them "AS-IS" for parts or as possible spare for your working R-390A. Includes front gear assembly, frequency counter dial, set of RF transformers with slugs and slug racks, HR202 crystal oven w/200 KHz & 17 MHz crystals, and tubes 3/6C4, 6DC6, 2/5814, 5654. 9x12x16, 19 lbs sh. #RF-R390A, "AS-IS", $65.

CANADIAN TRANSCEIVERS



CRT-1/CPRC-26 CANADIAN PORTABLE TRANSCEIVER, six channel unit for use in the 47 to 55.4 FM Mhz range. Receiver consists of RF amp, xtal oscillator, mixer, 4/IF amps, limiter, discriminator, and audio amp. Transmitter has master oscillator, modulator, power amp w/3B4. Uses tubes 2/3B4, 5/1AD4, 5672, and 3/5678 all of which are in sealed plug-in modules except the 3B4's. Modules are reparable Receiver sensitivity about 2 uv, deviation 15 Khz. Transmitter output 300 MW. Receiver requires 1.5 V 550 ma 45 V 12 ma, 90 V 30 ma; transmitter 1.5 V 850 ma, 45 V 8 ma, and 90 V 30 ma. (Battery not available.) With battery box but less crystals. O/a 3x4¾x10¾, 5 lbs Used. $17.95

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Accessories for CPRC-26: SCHEMATIC, $1.50
AT-5001/PRC ANTENNA, collapsible with flex base; 11"L folded, 47" extended. $3.00 ea.
CP-1/PRC COUNTERPOISE, rubber insulated 4 ft long wire w/split pin plug; use as counterpoise and/or trailing wire antenna. 2/$1.50
H-5002/PRC HEADSET, one 300 ohm element, $6.
MODULE SPARES, unused; specify RF OSCILLATOR, IF AMP, MODULATOR, AF AMP --$2.00 ea 10/$16.00

2 - 12 MHZ RECEIVER

RECEIVER SECTION from GRC-9 backpack transceiver, 2-12 MHz in 3 bands AM-CW; 456 KHz IF, 200 KHz calibration points. Controls for AF and RF Gain and headset jacks. With tubes 2/1L4, 3/1R5, 1S5, 3Q4; less grid bias battery. Requires 1.4 VDC 450 ma & 105 V 20 ma. 5x10.5x6.8, 10 lbs. #RX/GRC-9, used, $28. SCHEMATIC for above, $2. MANUAL GRC-9, $8.50 BA-48 BATTERY f/ above, 8 lbs. Checked, $9. CD-1119 BATTERY CABLE, mates to BA-48, but not to receiver; 2 lbs sh. $9.00

AM-65/GRC AUDIO AMPLIFIER, 3-channel audio for RT-70 transceiver; also works as power supply when PP-281 or -282 modular supply is installed inside AM-65. 4.4x8x13, 17 lbs sh. Used, $19.95

PP-281 POWER SUPPLY, allows 12 VDC operation of RT-70/AM-65; 6#. Used, $15. Unused, $21. PP-282 SUPPLY for 24 VDC power. Used, $6.00 PLUGS for RT70/AM65 interconnect, used $3 ea MANUALS for RT-70 or AM-65, $5.00 each

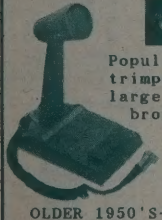
PRS-7 DETECTOR

AN/PRS-7 MINE DETECTOR SET, lightweight transistorized unit uses 390 MHz oscillator frequency to locate metallic and non-metallic masses and alerts user by 1000 Hz audio tone. Designed to operate in -25 F to +125 F temperature range @ 95% humidity and to withstand upto 24 hours of head submersion. Handle length adjusts 19" to 57". Requires 10-16 V battery (not available). Set includes search head, short and long handles, control module, headset, battery cable, & 24x7.5x16 aluminum transit case. Weight less case: 9 lbs; shipping wt with case: 27 lbs. Used-reparable, $85.00 MANUAL for PRS-7 (copy of copy), $12.00

VERTICAL GYRO

115 VAC 400 Hz VERTICAL GYRO ASSEMBLY with 24 VDC caging solenoid pictured with cover removed. 360 degree roll; +/-85 degree pitch. Gyro output is to be used with selsyn-type receiver indicators. 6x4x4 in sealed can; 6 lbs sh. #VG-1701 used, ~~$19.95~~ $15.

JOHNSON DESK MIC



Popular desk mic has volume control trimpot to adjust mic sensitivity and large push-to-talk switch. Handsome brown-cast metal with brass-colored mouthpiece; coil cord w/5-pin connector. 9.3" high, 3.8x6 base; 3#. NEW: #250-0736-002, $24.95

OLDER 1950'S-60'S STYLE Johnson desk mic; push-to-talk switch and coil cord with 5-pin plug. Does not have impedance match or volume control feature. Brown with brass-color mouthpiece; 7.8" high, 3 lbs sh. #250-888-2, unused, $19.95

RADIO SET CONTROL

C-1123/GRC CONTROL, routes input/output FSK-AM-CW signals to proper equipment in GRC-26D radio set comprised of T-368, R-390, CV-116, MD-239 & TT-76. Controls for SIDETONE Rcvr A-Off-Rcvr B, HYBRID BAL, REMOTE TEL RCVR A-Local Tel-Rcvr B, TELETYPE NORMAL or REMOTE OW-DX; also 0-100 DC MA for BIAS ADJUST. Connections for TTY Switch, Mike or Key, Converter Rcvr A & B, XMTR, Remote Tel, Remote Send or OW DX, Remote Rec DX. Jacks: Send One Way Duplex, REC Duplex, Local Tel. Requires 115 VAC 60 Hz; 12x11x6, 13 lbs sh. Used, $35.00 MANUAL for AN/GRC-26D with schematics for C-1123 and MD-239, original, $12.00

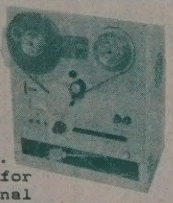
MX-991/U FLASHLIGHT

MX-991/U FLASHLIGHT official rugged right angle military type made in USA. Operate from two "D" cell batteries (not included). Clear diffuser, red signal, and white opaque spare lenses store in handle; metal belt clip. O.D. green plastic; current issue, 8.3"Lx2" dia. NEW $6.75

OSCILLATOR

TRANSISTORIZED CRYSTAL OSCILLATOR and BUFFER, 56 to 99 Mhz with 75 C temperature controlled oven. Requires 5th overtone HC-6 (20 pf) xtal (not incld). Has external oscillator input and tuning meter and oven output. Requires 12-18 VDC reg. for osc., 22-39 VDC 1 amp for heater. W/BNC and two submini 27 (UG-1465) connectors, power input DEC 9P connector, and schematic. 6gx2x3¼, #OSC99828, $8.

RD-365 RECORDER



RD-365 TAPE RECORDER, transistorized monaural unit uses standard 7" audio tape and plays/records at 3.75 or 7.5 IPS. Has VU-meter, footage counter, Fast Forward/Rewind. Built-in speaker plus jacks for mic, bridge input, and external speaker; 100-7500 Hz response. Has plastic case. Requires 115 VAC 60 Hz. Mic, reels and tape not supplied. Tested for "basic playback/record operation; adjustments may be required!" 14.5x13.3x7.3, 28 lbs. Used, $36. MANUAL for above, $10. MIC, used, $6.00

FIELD TELEPHONE

EE-8 FIELD TELEPHONE, portable hand-ringing magneto type for use where radio communications are not feasible. Two or more can be used in two-wire system up to 17 miles in length. Connect with two conductor wire; GN-38 handcrank generator signals transmission and MC-131 bell alerts of call. Two "D" cells required to operate TS-9 handset. With carrying case and strap. 8x10x3.5, 19 lbs. Used, $50.00 ea MANUAL, $5.

CODE KEYS

J-45 CODE KEY SET, consists of J-37 key mounted on steel leg clamp for field use. 4' cord & plug; 3 lbs. Used, $20.

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20 HZ STATIC RINGER

20 HZ INVERTER MODULE, used in telephone equipment to produce 20 Hz 65 volt 50 ma ringing signal from 110 VDC 65 ma input. 3.4x2x3, 2 lbs. #E10/TA182 used $7.95

PHONE JACK STRIPS

TELEPHONE JACK STRIP. 24 jack paors plus a monitor jack/pair; adjustable 6x26 terminal block on chassis rear. 3.5x19x15, 15 lbs. #J2098, used, ~~$28.95~~ $20.

LS-166 SPEAKER

LS-166 SPEAKER housed in cast-aluminum case with cable and U-77 audio plug for use with RT-70/AM-65 and similar family GRC/VRC radio equipment. 4" dia speaker has heavy-duty PM magnet; also 600:8 ohm audio transformer and Hi-Lo switch. 5x5x3.3, 5 lbs. Used, $15.00

TELEPHONE TONE PAD

WESTERN ELECTRIC TONE KEY PAD, can be usedfor tone control, signaling, and experiments. Each key produces tone output; characters 0 thru 9, *, #. Requires 9 to 15 VDC; with hookup info. 3.4"x3.3"x1.8", 1 lb. #35AF3A, used "AS-IS", $3.50

LS-103 P-A SPEAKER

LS-103/TIQ PUBLIC ADDRESS SPEAKER for indoor or outdoor use; conservatively rated for 30 watt output with 50-10000 Hz response. Has 16 ohm voice coil & driver plus matching transformer with taps for 250, 500, 1000, or 2500 ohm input; 19" dia horn. Mounts to 7/8" dia pipe and has lock-joint to adjust angle. Rugged speaker out-performs most new commercially-made speakers with similar "printed" specs! Driver & coil 20.5"L; o/a 26"L, 26 lbs sh. Used, $34.50; 2 for $60.00

MT-128A MOUNTING TRIPOD for LS-103, extends 48"-90"H. Steel, 25 lbs. Used, $25. 2/$42.

RL-3 REEL with RD-110 wire for speaker hook-up; approx 90 ft, 5 lbs sh. Used, $4.

CY-37/TIQ WOOD CASE for storage of two LS-103's plus space for cable and other items. Hinged with hasp fastners; 23x34x22, 85 lbs sh. Used, $10.00

PATCH PANEL SET

SB-2244 COMMUNICATION PATCH PANEL for interconnect of RTTY and crypto equipment. Provides three signal & stepping circuits to a transmitter-distributor from a crypto xmitter. Each circuit has signal and step loop. Adjustable line current 60 ma (signal), 50 ma (step). Loop has two Loop and Set jacks plus one Miscellaneous. Also 100-0-100 MA DC Line meter, three dual patch cables and manual. Requires 120 VDC for signal & 67 VDC for step battery. 12.1x5.8x6, 17#. Unused, $29.95

PRS-4 MINE DETECTOR

AN/PRS-4 MINE DETECTOR SET, audio frequency, mutual conductance-type used by military to detect anti-personel & tank mines having metallic parts. Square search head attaches to telescoping handle while amplifier unit is carried on operator s back in canvas harness. Has headset for audio and meter for visual indication of metal object. Stores in 9.5x36.3x13.8 wood case. W/ tubes 1U4, 2/1U5, 5676, CK522. Requires 67,5 & 1.5 VDC; batteries not available. Good physical condition but not tested; 57 lbs. Used, $65.

TA-312 FIELD PHONE

TA-312 FIELD TELEPHONE rugged light-weight unit replaced famous EE-8 field phone and can be used with them. Includes G-42 crank enerator, BZ-3 clacker call signaler, H-60 handset, and canvas carrying bag w/ strap. Requires two D-cell batteries (not supplied.) 12x7x4, 12#. Used-checked, $85.00

WD-1 ON DR-8 REEL

WD-1/TT FIELD PHONE WIRE on DR-8 REEL. > 1250 feet of two-wire twisted pair vinyl-covered steel wire for use with TA-312 and EE-8 field phones. May have splices; 8.5x9" dia, 16 lbs. #WD1-DR8, used, $29.50

Headsets — Telephone Equipment — Microphones — Handsets

HS-23 HEADSET 2000 ohm; R-14 elements, brown leatherette HB-7 headband (not US made) w/18" cord & PL-54 plug. 3#. #HS-23-BR, $12.

R-14 ELEMENTS only, unused, $4 ea

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M-301 4" CHAMOIS CUSHIONS for HS-23/33, $5 /pair.

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MX-41 2.8" RUBBER CUSHIONS $1.25/pr

CD-307 EXTENSION CORD for above, 65"; used, $2.00

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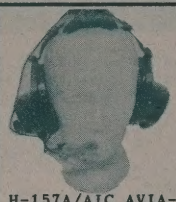
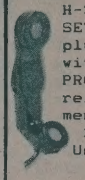
CX-1334 CABLE, adapts H-113 or CW49507 to GRC-equip (JK26 jack & U77 plug). Used $4



H-157A/AIC AVIATION HEADSET with H-87 BOOM MIC for intercommunications. 10 ohm ear phone impedance in parallel; 3.2 ohm mic. 28" cord has U-174 plug. Comfortable 4.5" x3.5" vinyl-covered cushions & padded headband. Used-checked, $40



H-33/PT HANDSET with U-77 plug; for use with GRC-3--8 PRC-8-9-10, & related equipment. 5' cord, 2 lbs sh. Used-checked, $17.50

Western Electric Sound-Powered 1024 ohms D-173016 trans.

new $3.00 ea.

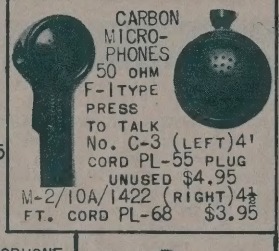
Carbon Elements
F-1 Mic. $1.50
Lip Mics: M-51 M-6 M419 etc. $1.50
Telephone elements: U-1 or T-1, $2.00

T-17 MIC, carbon 35 to 90 ohm push-to-talk; PL-68 on 5' cord. Used-plastic, $7. Used- metal, $10. RECONDITIONED-plastic, $12.00

RS-38 MIC, 100 ohm carbon; w/PL-68 4' cord New, NOT U.S., $6

JK-38 PHONE JACK for inline use; takes two PL-55 plugs, $1.00 ea

T-45 LIP MIC



CARBON MICROPHONES 50 OHM F-1 TYPE PRESS TO TALK No. C-3 (LEFT) 4' CORD PL-55 PLUG UNUSED $4.95
M-2/10A/1422 (RIGHT) 4½ FT. CORD PL-68 $3.95

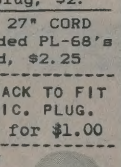
T-45 MICROPHONE CARBON TYPE 100OHM 50DB BELOW 1 MILLVOLT, FLAT RESPONS WITH PL-291 2 CONT MALE PLUG, 11"CORD Unused, $3.00

H-23 HANDSET or equal; PTT switch, cord w/PL-55 & -68 plugs. Used, $16.

HEADSET "Y" CORDS #CO-73A 9" cloth covered w/PL-54 f/HS-38. Used $4. #CO-78, 7' rubber w/tips, $2.00 #49012, 4' flat-rubber w/PL-54-type plug, $2.

CD-265 27" CORD w/moulded PL-68's Unused, $2.25

JK-33 JACK TO FIT PL-68 MIC. PLUG. Used, 3 for $1.00



WESTERN ELECTRIC HEAD & CHEST SET antique horn-style 396A chest mic w/single receiver on wire headband; cloth cord w/clips; 4#. #WE-HCS, used $20

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MIC COIL CORD, 1-wire shielded, 2-wire not; 30"-42" #SH-CC3042, $2.50

GSA-6 CHEST GROUP SA-142 PTT-switch & CX1077 cable w/U-77 plug connect H-63 headset to GRC radios. Used, $6. Unused, $10.

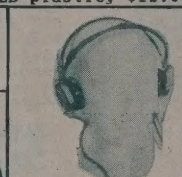
CD-604 CORD WITH IMPEDANCE MATCHING TRANSFORMER 500OHM TO 4000, USED WITH HS-30 HEADSET, 6" CORD & PL-54 PLUG. Used, $1.10 ea

CD-605 CORD SAME AS CD-604 ONLY 30" LG. WITH PL-55 PLG Used, $2.00

PL-55 PHONE PLUG 30" CORD $1.00

JK-34 PHONE JACK TO FIT PL-55 PLUG Used, 3 for $1.

"EXTRA-STRETCH" PHONE COIL CORDS: #T425-MOD, 4 ft to 25 ft extension with modular jacks; tan. NEW, $3.95
#B212-LUG, 2 ft to 12 ft with terminal lugs; 4-cond., black. NEW, $2.50



HS-16 HEADSET, impedance 1000 ohms; has HB-1 headband, 54" cloth cord w/ two pin plugs. 3#. Unused, $11.95

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H-91 HEAD & BOOM MIC w/U-77 plug; used, $14.00

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H-182 HEAD & BOOM MIC w/U-77 & PTT switch; used, $16

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RCA MOBILE MIC by SHURE BROS. hand-held w/PTT switch, coil cord & 6-cond plug. 2-tone green #559575B, used, $6

MOBILE MIC

GM DELCO MIC for mobile communications; black w/ PTT switch, coil cord & 5-pin male connector. #GM-DEL-MIC, New, $7.

BLACK STANDARD HANDSET, older style with elements but no cord. Used, $5. NEWER STYLE with cord, Used, $3.00

DOUBLE PLUG D178542 for headset; similar to type 289 and 298. Used, $2.50

H-233 600 OHM HEADSET w/ 22" cord & U-93 plug Comfortable 4.5"x3.5" foam cushions & padded mesh headband; 2 lbs sh. Used, $17.95

H-63 HEADSET & BOOM MIC, 600 ohm receive & 100 ohm M51 mic elements; w/ JJ-055 & 3-pin jacks. 3 lbs sh. Used, $12.50

600 OHM HEADSET

CW-49507 HEADSET, vintage 600 ohm headset has black rubber ear cushions & 18" cord with PL-54 plug. Also snaps for CW-51071 lip mic; 3 lbs sh. Unused, $8.95

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CD-307 65" EXTENSION CORD for above; used, $2.00

CW-51071 LIP MIC for above; 100 ohm. Plugs into CD-318 push-to-talk switch., $2.50

SWITCHBOARD CORD with Switchcraft 413 double plugs on each end; 30"L. 2#. #SWB-C-169374, $4.95

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#G2-SWB-72, grey cloth-covered cord with double plug on each end; 72"L, 2#. $6.50
#R2-SWB-72, as above but red, $6.75
#2G12-SWB, two grey cloth-covered cords with common double plug one end and separate single plugs on the other; 72"L. $7.50
#B1-SWB-72, black cloth cord w/single AE-309 0.38" dia plug each end; 72"long. $3.95
#1-SWB-54, cloth-covered cord with PL-47 one end, lugs on the other; 54" long. $2.50

CONTEMPRA PHONE

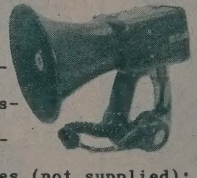
CLEARANCE of modern CONTEMPRA PHONES, Northern Telecom manufacture with keypad, ringer, & coil cord. These are leftover NON-WORKING units with discolored, cracked, or scratched cases & cords. Various colors, but NO choice! Suitable for parts recovery; 5 lbs ea. "AS-IS", 3 for $10

STANDARD TELEPHONE EQUIP.

All of our standard telephone equipment is sold as "used-complete" only unless otherwise noted. Some adjustments may be required so that the equipment conforms to your local telephone company's system.

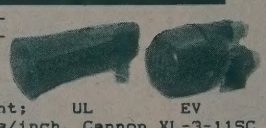
CALL COMMANDER MULTILINES, NE-643C or equal; grey, green, or beige as available. 6 lbs.
11-line 1-hold ~~$22.95~~ $8.
17-line 1-hold ~~$28.95~~ $10

'BULLHORN' P-A



AN/PIQ-5A PUBLIC ADDRESS MEGAPHONE, portable hand-held unit has 8.5" dia horn with 15 W output; usable indoors & out. Also detachable mic and fiberglass oarrying case. Requires 10 D-cell batteries (not supplied); o/a 14.3x1.5, 17 lbs sh. Used, $45.00

PUBLIC ADDRESS MICS



M-43 P-A MICS, low-impedance omni-directional for public address use; 150 to 4000 Hz response. Swivel mount; UL EV 5/8" dia 27 threads/inch. Cannon XL-3-11SC connector; 2 lbs sh. Used, two styles/mfg:
#M-43-UL, University Loudspeaker mfg, $9.95
#M-43-EV Electro-Voice mfg., $8.95

CX-3094 MIC CORD with mating connector for above; 25 ft long. 3106-14S-7P 3-pin male connector on other end; 4 lbs. Used, $7.50

MT-596 MIC STAND for above with tripod base; Used, $10.00 ea; 2 for $16.00

ELECTRO-VOICE HANDSET-MIC dynamic differential-type w/noise-canceling for paging, intercom, etc. 150 ohm receive; 250 ohm transmit. W/ PTT switch, 24" coil cord & U-77 plug. #625SKK, used $20

HS-30 HEADSET 250 OHM IMPEDANCE hearing aid type light weight headband 7½" cord w/spade lugs that wire into CD-604 or CD-605 cord for 4000 ohm Used, $7.50

ROANWELL HEADSET w/boom mic single earphone; has PTT switch and 9' coil cord with U-77 plug; 4#. #10253, used $25

#M-236-6A SOUND-POWERED CHEST MIC, push-to-talk, 18' cable; 6#. Unused $10.

TS-9 HANDSET with butterfly switch as used on EE-8 and similar field phone equipment; 2 lbs. Used, $9.95

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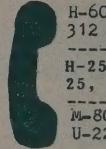
H-90 HANDSET, like TS-9, but w/U-77 plug; $12.00

JEN-20 HANDSET w/AMPLIFIED receiver for the hearing impaired; Black, white, or beige. NEW $15.

A. B. C.

VRC-12 COMMUNICATION EQUIPMENT designed for use with RT-246/524, R-442, PRC-25-77 and similar radio sets; 1000 ohm earphone impedance.
A. H-140 HEADSET w/vinyl cushions, 42" coil cord & U-229 plug. OD-green & black; 2#. Used, $11.95
B. H-251 HEADSET lighter equal to above w/24" cord & U182 plug; all-black, 1.5 lbs. Used, $12.
C. H-161 HEADSET, same as H-140, but includes 300 ohm boom mic, push-to-talk switch, & CX-8652 Y-cord; 4 lbs sh. Unused, $40.



H-60 HANDSET f/TA-43-312 phones. used $14.

H-250 HANDSET f/PRC-25, VRC-12; used, $17

M-80 MICROPHONE with U-229 plug. used $10

M-29 MIC with U-77 plug, used, $5.
M-52 MIC (left picture), like M-29 except PL-68 plug. Unused, $7.95

CD-318 PUSH-TO-TALK SWITCH w/ lock; has 7' cable w/PL-68 plug & JK-26 jack. Use with T-30 throat or T-45 lip mics; LESS STRAPS. 2 lbs. Used, $6.

CHEST SETS
T-2A, un $8.
T-46, un $7.
TD-4, un $7.
H-12, un $7.
H-28 with PTT-switch, mic, coil cord with PL-68 plug; 4#. Un $10.

DYNALEC SOUND-POWER HANDSET, new ~~$37.50~~ $30.

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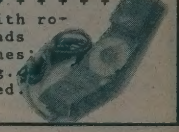
LINEMAN'S HANDSET with rotary dial & clip leads to monitor phone lines; Northern Telecom mfg. Green; 3 lbs sh. Used. #NT-LM-HS, $50.00

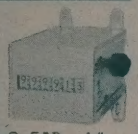


VIDEO SWITCH

ATARI TV-GAME SWITCH, select 300 ohm antenna lead terminals or 75 ohm cable connection; also RCA jack for video game or computer. 4.3x3x1.2, 1 lb sh.
#AT-TVGS, NEW, $2.50

RHODES 60 SEC TIMER, times from 2 to 60 seconds; bell signals time elapsed. 3" dia plastic case; 1 lb sh.
#56414, NEW, $2.50 each.

12 VDC COUNTER



6-DIGIT MECHANICAL COUNTER 12 VDC non-resettable; black numerals on white. Rear mount flanges; o/a 1.3"Hx1.5"Wx2.5"D, 1#.
#EO7B10DC12, NEW, $2.95

CANVAS BAGS, STRAPS AND COVERS, MAY BE USED OR UNUSED. ALL ARE CLEAN WITHOUT TEARS. SHOULDER STRAPS ARE ADJUSTABLE AND MADE OF COTTON WEBBING.

ST-138/PR BACK PACK HARNESS for PRC-25-77 radios; metal supports and padded shoulder straps. May have minor tears and/or worn spots but is completely usable; 5 lbs. Used, $12.00

CW-503/PRC ACCESSORY BAG for PRC-25-77; holds antennas & handset. O/a 20"Hx5.5"W (tapers to 3" at bottom) x3.5"D Snap covers, but no belt clips; 3 lbs. Used, $6.00

ANTENNA ROLL BAGS for mast sections & related; used: BG-174 for MS-116 etc, $7.50

CW-206 for MS-116 etc., $6.

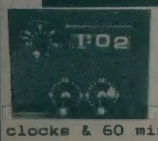
GRC/VRC EQUIPMENT COVERS: CW-329 f/GRC-3--8, NEW $8.

FIELD PHONE FABRIC CASES: for EE-8 w/strap, used, $6 CY-1277 for TA-43/312, $6.

BRAKE LIGHT

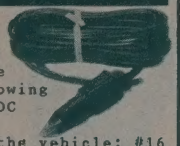
AUTOMOBILE BRAKE LIGHT, 5.5"W x 2.8" H red lens on black plastic stand; top swivel adjusts light angle. German mfg; o/a 7.5"H max, 2#. #BL-G10005, $2.95

STOVE CLOCK

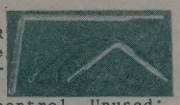


STOVE CLOCK TIMER, mechanical easy-to-read digital clock, Start-Stop clocks & 60 minute timer; 115 V 60 Hz. Panel 5x6x2.8, 3#. GE#1317675, NEW, $4.95

LIGHTER DC CORD



15 ft cord connects to car, van or RV cigarette lighter allowing use of 12 VDC appliances throughout the vehicle; #16 wire, 2 lbs sh. #LI-C15, $4. #LI-C3 3 ft lighter cord; good size for portable battery packs, etc. $2.50



MERCURY THERMOMETER right-angle glass; probably for xtal oven control. Unused: #74661725, 4.5"L leg graduated 58 to 62 C in 0.1 C increments; 7" leg is mercury resevoir. $6.95
#7461727 Mercury Switch, makes contact @ 60 C; wire leads, 3.3"L legs. $5.95

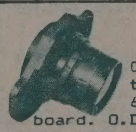
CARD SCANNER

CREDIT CARD SCANNER, uses optical system to read raised numbers of credit cards into a photo array. Small AC motor drives card through reader; w/connector diagram. 5x5x4, 3 lbs. #ECR2020, used $4.95

LIMIT SWITCH

LOXSWITCH, industrial limit switch rated 600 V max 18 amp contact; has 3/4"Lx1/2" dia shaft. 5x2.3 x2, 2#. #L100WNC-2M, $12.00

VARIABLE DENSITY FILTER w/coupled density control for both lenses. Distance between centers varies 1.9" to 3.1"; each threads onto 1.3" dia barrel. #VD-FIL, unused, $3.95

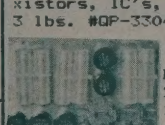


205 MM

COPY LENS apertures F4.5 -5.6 6.3-8-16 on mtg board. O.D. 3" x 3"L; 2 lbs sh. #AA-L205, used, $8.

12-DIGIT FLUORESCENT DISPLAY, 3/8" digits 0 thru 9,-,-,', and decimal point. Tubes 2"H plus IC's, transistors, etc. 9x8.5x2.5, 4 lbs sh. #POS-2, ~~$6.95~~ $3.50

12-DIGIT FLUORESCENT DISPLAY, 5/16"H characters, 1-5/16"H DG-10A tubes; 21 xistors, IC's, etc. 5.3x3.4 3 lbs. #QP-3304, ~~$4.~~ $3.00



INDUCTOR PC BOARD has 3 200 uH and 2 1200 uH inductors 3/4"H x 1-3/8" dia; also 3/4000 mf 20 V, 3/3000 mf 25 V axial caps, xistors etc. 3 lbs. #54-014535, $2.

IMPRINTER LOGIC with three each P&B JRA-1012 SPST 12 VDC reed relays, regulators, & 0.02 mf 1 KV discs; also 2/C4003. 2 lbs sh. $3.00

HONEYWELL HUMIDIFIER CONTROL as used on home humidifiers. Plastic element tape senses 10%-70% humidity and closes normally open 120 VAC contacts depending on setting of variable control. Shaft 1x¼ dia; o/a 1x 1¾x4⅛. #H46B1150 NEW $1.95

THERMAL SWITCH opens 30 sec. after cooling. Operate 130 vac. 2m ohm res. 1½x1¢, 20" leads. M-4199 $1.50

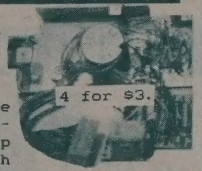
HEATING ELEMENTS

NICHROME 650 WATT HEATER WIRE-COIL, 8 ft long; 2 lbs. #NHC-650W, NEW, $3.95

BRYANT STRIP HEATING ELEMENT, 120 VAC 150 watts; 1⅛"W x 8"L including mounting flanges. 2 lbs sh. #6115-931-7883, NEW, $2.95

LOOP COIL TYPE, 9" LONG; 115 VAC 30 w. #83975, $2.00

TIMER BONANZA

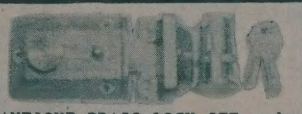


CARTRIVISION TIMER CONTROL, part of early home video system; cheap gizmo with interesting parts: 115 VAC timer motor with upto 8 hr delay and SPDT contacts, 18 V 200 ma transformer, 12 VDC SPDT relay, SPDT and 4PDT slide switches, etc. 3.9x9.5x2, 2#. #CV-TC87, $1

LONG DURATION TIMER WITH 115v RESET RELAY. 115v 60 HZ 1/16 RPH MOTOR. CAM ACTUATES SPDT MICRO SWITCH. 3⅛x2¼U. UNUSED $2.95

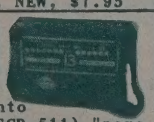
ILLUMINATED CLOCK MECHANISM AS USED ON CLOCK RADIOS. CLEAR PLASTIC FRONT TO TRANSMIT LIGHT, NO HANDS. HAS 60 MIN TIMER ALSO HAS ON-OFF-AUTO ALARM 2"SQ FACE. 115v 60 HZ. Unused, ~~$1.50~~ $1.00; 5/$4.

BRASS DEAD BOLT



ANTIQUE-BRASS LOCK SET made for gov't. Includes locking assembly, jam receptacle, key cylinder & two keys; 2#. #LS-264-7598, NEW, $7.95

BC-746



BC-746 TUNING UNIT, plugs into WW-2 BC-745 (SCR-511) "pogo stick" radio to set FT-243 xtal channel Rx-Tx frequencies. Specify channel #; 4x 2.8x4x1.3, 1 lb. $4.00 each

Channel	Tx	Rx
#11	4780 KC	5235 KC
#12	5030 KC	5485 KC
#13	5305 KC	5700 KC

3" DIA 0-360 INDICATORS, usable for QST antenna position project.

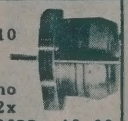
I-81F, 5° marks, unused, $15. ID-637/ARN, 2° marks and VAR knob, used $10. Unused $17.

PARTS GALORE

TELEMETER PROGRAM SELECTOR part of an obsolete pay TV system which featured prerecorded tape program review, coin deposit register mechanism, and audio amplifier-power supply with 4" speaker. Generates 8 Mhz signal to trigger mechanism and 35 Mhz video output. Tape magazine has recording head and plays 66' of ¼" tape in continuous loop. Mechanism has 5 RPM Cramer 115 VAC motor plus other motor, gears, etc. Power supply output 150 VDC 100 ma and 6.3 V 3 amps. Tube line-up 3/6U8, 6BE6, 6BA8, and 12BH7. Cabinet 15x7x7, 21 lbs sh. Our bargain price is worth the tape magazine, coin mechanism, power supply, or tubes alone. NEW, $6.95

KEY ALARM

ALARM CONTROL PANEL w/5-position key lock wafer switch, SC628 Sonalert 6-28 V 3-14 ma, and five panel lights. 11.3x4x8 2 lbs. #ALRM-SC628 w/key, $7



SYNCHRON CLOCK MECHANISM, No. 610 115 VAC 60 Hz 3 watt 1 RPM. W/gear assy but no reset or cover. 2x 2x2.3, 1#. #EC-129RB, $2.00

SOUND PROTECTOR

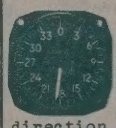
Avoid hearing damage from loud machine noise, firearms, explosions. 4"Hx3"W x3"D foam-lined plastic cups w/padded cushions & headband. Made for military; 3#. ASTROCOM #10232, $16.95

DUAL 100-TURN COUNTER on 5.9"H x 10.3"W panel with spin crank knobs; counters marked LOADING and TUNING. One counter offset 5.1"; gearing can be disabled for direct drive. O/a 14"W, 7 lbs. #100T-368, used, $20.

ATTENUATOR

ATTENUATOR NETWORK, 600/600 ohm balanced "H". 0 to 70 DB in eight 10 DB steps. 4"Hx2.5" dia, 2 lbs. Used. #ATT/SG15, ~~$9.~~ $7.50

5" DIA RADIO COMPASS INDICATOR, 0-360 scale in 1° increments. With VAR knob & AY-1 autosyn. Usable in antenna position projects; 4 lbs sh. USED: MN-37 or equal, $22.00

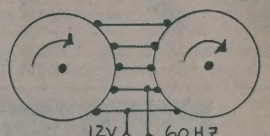


I-91(*) RADIO COMPASS INDICATOR 3" 360 deg. sc. used w/ARN-6 sys. 3⅛"x3".(can be us used with wind direction system)
Used, $9.95; Unused, $14.95

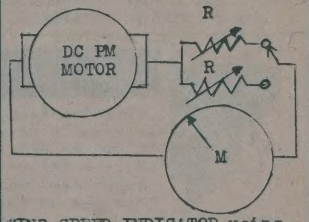
PILOT INDICATOR

MG-2 PILOT's INDICATOR for bomb NAV-system. Separate scales 150-0-150° TURN and 360-0-360° TIME TO GO. Two Sperry selsyns mounted in line; 24 V 400 Hz originally but works on 12 V 60 Hz with some response loss. 10x3.8" dia, 4 lbs. $15.95

WIND DIRECTION



WIND DIRECTION INDICATOR using 26 V 400 Hz 1 phase selsyn transmitters. Design wind vane and indicator for monitoring wind direction from indoors; two selsyns required in project. #TX/SEL, used, $7 each

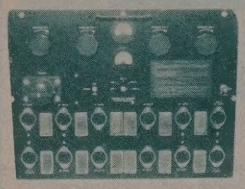


WIND SPEED INDICATOR using a 24 VDC PM motor as a generator, a 1 milliammeter and a resistor range scaler so that wind speed can be monitored indoors. We will supply the PM motor and a 3½" rd 0-1.0-50 scale (FS-1 ma) meter; you design the rest.
#WS-MOTOR & METER, $9.95

AY-1 AUTOSYN MOTOR AS USED IN I-81,I-82 ETC. DIRECT REPLACEMENT. $5.95

I-81 & I-82 ARMATURES ONLY #3H2716/A1, UNUSED, $3.95
I-82 GLASS ONLY, $2.00

DC LOAD PANEL



"loaded" with prime "clean" parts for DC power projects!
Panel includes:
* 0-30 VDC 2.5" METER
* 0-30 AMPS DC METER
* 4 each 50 MV SHUNTS
* 4 RHEOSTATS:
  2 ea 225 W 3 ohms
  2 ea 150 W 2 ohms
* 12 CIRCUIT BREAKERS:
  6 ea 32 VDC 8 amps
  6 ea 32 VDC 20 amp
* 12 ea 1N1184 DIODES
* 4 ea 2.4" dia KNOBS

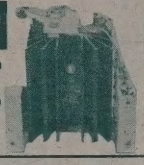
and other parts. Panel is sold "less its On-Off and 4 STA selector switch. 18.8x23x6, 30 lbs. #DAV-LCP, $49.50.

* *

Individual items from above panel:

METERS, 2.5" rd sealed,
0-30 VDC, $7.95 ea
0-30 amp, FS=50 mv, $8
SHUNT, 30 amp 50 MV, $6
* * MATCHED METER SET with shunt, $19.95 * *
RHEOSTAT, 225 watt 3 ohm, $6.50 ea
" , 150 watt 2 ohm, $5.00 ea
CIRCUIT BREAKER, 32 V 8 amp, $2.50 ea
" " , 32 V 20 amp, $3.00 ea
DIODES 1N1184, $1.25 ea; 12/ $12.00
FLUTED KNOB, 2.4" dia; #KNB-LCP, $1.25 ea

SCR HEATSINK ASSY



SILICON RECTIFIER BRIDGE, single phase half-wave; GE #C14114CX5 or equivalent. Rating approx 500 V 35 amps. 7x6¼x5, 4 lbs sh. #KS-19576L1, used, ~~$8.95~~ $4.95

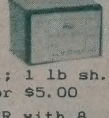
9.5 VDC ADAPTER

AURORA TOY WALL TRANSFORMER, changes 120 VAC to 9.5 VDC 350 ma output. 6' cord with slide lugs; 2 lbs sh. #AUR-95V34VA, ~~2/$5.00~~ 2/$4.00

+ + + + + + + + + + +

CERVCO AC ADAPTER, 11.5 VDC 175 ma output; 6' cord w/o lugs. #CER-11.5V, ~~2/$4.00~~ 2/$3.00

POWER CONVERTERS



ASTEC DC - DC CONVERTER designed for PC board mount; +5 VDC input produces -12 VDC 85 ma output. 1.2x1.5x1; 1 lb sh. #AA7210, $2.95 ea; 2 for $5.00

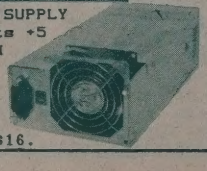
PLUG-IN WALL TRANSFORMER with 8 VAC 750 ma output from 115 VAC input; lug output connections. 1.5x2.5x1.5, 1 lb sh. Potrans #WP410608, $1.95 ea; 2/$3.

6-7.5-9 V ADAPTER

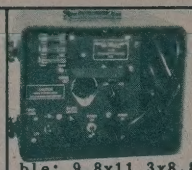
UNIVERSAL WALL TRANSFORMER, selectable output 6, 7.5 or 9 V DC 300 ma and selectable connectors: 1/16" or 1/8" dia plug or receptacle. With 6 foot cord. This may be the only AC adapter you'll need for those electronic toys, battery charger, etc! #DV67930, Unused, $3.95

REGULATOR MODULES from Sun supplies (pg 20), each with current limit and volatge adjust. Includes bridge rectifier, filter capacitor, two 2N3055 or equal and 723 regulator; 2 lbs sh. #SUN-REG-124, 12 V 4 amp, $10. #SUN-REG-58, 5 V 8 A w/OVP; $8.

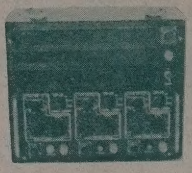
+5/+12 V SUPPLY



ENCLOSED SWITCHING POWER SUPPLY with 3" axial fan. Outputs +5 V 10 amp, +12 V regulated 2.5 A, +12 V 5 A Unregulated from 115 VAC 50/60 Hz input. P/o Wang equip. 2.6x5.1x12.5, 7#. Astec #12690, used-clean, ~~$24~~. $16.



PP-68 VIBRATOR SUPPLY (similar to picture), 100 - 110 VAC 60 Hz 15 or 50 watt output from 6 VDC 6/13 amp or 12 VDC 3/6.5 amp input. With 66" cable; 9.8x11.3x8.8, 36 lbs sh. Used-checked, $24.00

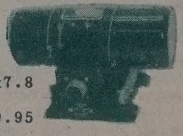


PP-6241 SOLID-STATE BATTERY CHARGER for silver-zinc or nickel-cadmium types. Three independent charging units with outputs 8-16-32 VDC or 0-36 VDC in 0.1 V steps; 1.0 or 2.25 amps charge. With cables CX11971, 3/ CX11972, 3/ CX11973 and book. Requires 115 VAC 45-440 Hz input. 11.5x13.8x11, 46 lbs sh. Unused, ~~$79.50~~ $59.50

LAMBDA DC SUPPLIES

LAMBDA MODULAR POWER SUPPLIES, 105-125/ 210-250 VAC 47-63 Hz input; outputs +5% @ 40 C. Used-good cond: #LOS-Z-5, 5 VDC 3 amp 4.8x4x2 3 lbs $14.95

400 HZ INVERTER



ROTARY AIRCRAFT INVERTER, 115 VAC 400 Hz 3 O 100 VA output from 27 VDC 9.2 amp input. 4.8x7.8 x5.5, 8 lbs sh. #AN-3499, used, $19.95

DYNAMOTORS

#35X073-A Navy version DM-32, $12.
DM-34 re-new $20. D-10A used $6.
DM-35 re-new $20. D-101 used $7.
DM-36 re-new $15. D-401 renew $8.
DM-53 used $6. DY-10/ARC-1 $14
DM-53 12 V $8. DY-86/ARN-30 $7.
DM-64 used $10. PE-94 used $25
D-10A used $5. PE-133 used $10
#3H1514-22 12 VDC DYNAMOTOR for WW-2 RBM receiver. Unused, $16.
#21215 12 VDC or #21441 28 VDC DYNAMOTORS for RU-18, used, $22 ea
#21109 12 VDC DYNAMOTOR & FILTER BASE for RU-16 Tx-Rx. Unused $25.

INVERTERS

PP-2352/UR ELECTRONIC INVERTER p/o TRC-75 radio set, output 115 VAC 400 Hz 1.4 KW continuous (2.5 KW intermit) 3 Ø with 1 Ø sinewave. Input 28 VDC 110 A. Connector not available. 7.6x7.8x19.5 52#. Used-reparable, $95.00

MG-149H INVERTER, Input 24 VDC 36 amps; output 115 V 400 Hz 1 Ø 500 watts and 26 V 400 Hz 1 Ø 250 W. 12x 8.5x8, 26 lbs sh. Used, $45.

24 VDC 2.5 AMP POWER SUPPLY from 120 VAC input. Has volt adjust. Gov't surplus heavy duty transformer-type. 3.3x 5x7.3, 10 lbs sh. Used, not tested. #24PS-31196, $15.00

DY-118/ ARC-38 DYNAMOTOR SUPPLY provides voltages for RT-311, -594/ ARC-38A from 28 VDC 30 amp input. Output: 600 VDC 550 ma & 250 VDC 150 ma; also +28, -50, -65 V. 4.9x6.8 x18.3, 25 lbs. Used, $35.

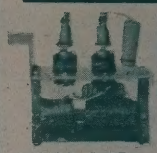
WINCHARGER 51S1 DYNAMOTOR on 15x9½ base. Input 26 VDC 22 amps; output 1500 VDC 200 ma and 330 VDC 100 ma. 44 lbs sh. Used, $20.

DY-12/ART-13 or = DYNAMOTOR SUPPLY, input 27 VDC 33 amp Ouput: 400 VDC 750 MA and 750 VDC 350 MA; 6.5x8x12, 36 lbs sh. Used, $40.00

+ + + + + + + + + + +

#LV-DYN/T195, input 10 amps output 250 VDC 300 ma, -45 VDC 10 ma, and 115 VAC 30 VA 400 Hz. 8½x3 d. $25.

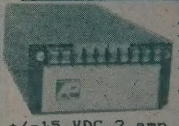
HIGH VOLTAGE



ACE HIGH VOLTAGE POWER SUPPLY; Output: 3000 VDC 50 UA approx. Input: 115 V. 60 Hz. Uses two 1B3 rectifier tubes. With mounting flange. Size: 6x7x2; Shpg. wt: 8 lbs. Unused. #ACE-HV3000, $5.95

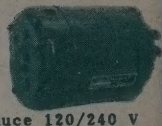
SPECIAL!! 3 for $10.00

DC CONVERTER



ADTECH DC to DC CONVERTER, 28 VDC input; outputs 5 V DC 10 amp & +/-15 VDC 2 amp. 2.3x4.8x10 5 lbs. #3DD5-15N NEW $12.95

PP-18 CONVERTER 12 VDC 4 amp to 24 VDC 1.5 amp; parallel for more current. With vibrator & plug; 6.5x5.5 x8.5, 10 lbs. UNUSED, $5.95

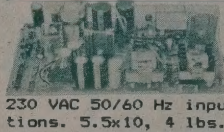


GN-51 GENERATOR, has receptacle for 5/8" di gear shaft allowing 3600 RPM input to produce 120/240 V 60 Hz @ 2.5/1.25 amps. Has twist-lock AC outlet and two terminals; 8"Lx6" dia, 25#. Unused, $45. Used $30.

PP-1234/U 115/230 VAC POWER SUPPLY for URM-32 freq. meter; output 180 VDC 20 ma, 6.3 VAC 1.1 amp. Xformer 460 VCT 20 ma, 6.3 V 1.25 A.; Choke dual 20 Hy 20 ma. W/6X4 tube. 12x3¾x1½ 12 lbs sh wt. Used, $14.95

3 PHASE "Y" DIODE BRIDGE p/o 200 VDC supply; 6 submodules each with ten 1N1095 diodes & 5 capacitors series-parallel. 3.3x2.3x3.7, 2 lbs #1540/ARC58, used, $6.00

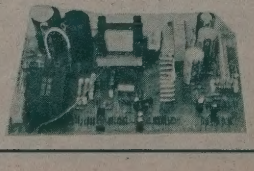
28 VDC SWITCHING SUPPLY



28 VDC 1.25 A SWITCHING POWER SUPPLY, also outputs +12 V 1.5 amp, +5 V 4 A, and -12 V 0.5 A; requires 115/ 230 VAC 50/60 Hz input. Not for RF applications. 5.5x10, 4 lbs. #PS-1486, ~~$19.95~~ $14.95

5 VDC 28 AMP

HEAVY DUTY SWITCHING POWER SUPPLY with "heavy duty" outputs +5 VDC 28 amps, +12 V 4 A, +24 V 1.5 A from 115 VAC 60 Hz input. Has On-Off switch, 3-prong input connection and 16-pin Molex output connector. Sold "AS-IS complete, no schematic." 2x5x13, 6 lbs. #SWPS-528, $14.95

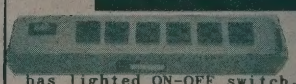


POWER SYSTEMS SWITCHING SUPPLY, outputs +5 V 7 amps, +12 V 3 amps, -12 250 ma, -5 300 ma from 115/230 VAC 50-60 Hz input. 7.8x4.4x1.5, 3#. NEW: #PS1558, ~~$28.95~~ $21.

PAGING HORN

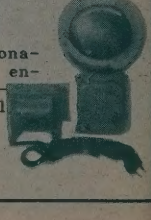
OUTDOOR PAGING HORN with sealed voice coil and 5" dia aluminum horn. Rated 10 watts 8 ohms. Includes mounting bracket. O/a 4.8" deep, 4 lbs sh. MURA #CBH-5, NEW, $9.95

6-OUTLET AC STRIP



Made for the U.S. gov't grounded AC 6-outlet strip has lighted ON-OFF switch, RESET, and long 15' cord. Very useful item for home, shop, or office. 13x1.8x2.5, 3 lbs sh. #ST-6AC: USED, $5.95; 2/$10. UNUSED, $9.95; 2/$17.50

ALARM BELL SET



4" dia BELL ALARM, polished resonator provides loud "jingle" when energized. Includes 115 VAC transformer with 10 V output for bell coil; 6' cord. Bell assembly 7x 4x1.5, 3 lbs sh. Liberty Bell manufacture; #2004, NEW, $9.95

TUBE SOCKETS

4X150/4CX250 silver-plated socket Eimac/Johnson as available. USED: #122-115 or =, 1100 pf bypass w/chimney; 2.5" dia, $18.00
#SK/TRC68 compact 2.3" dia w/ mount clips; no chimney, $12.
OCTAL TUBE SOCKET EXTENDER, plugs in to save wear-and-tear on your tube checker's octal socket; #1189, NEW $1.75
U-102 OCTAL TEST SOCKET, test points for octal tube; plugs into socket. #4578 NEW $2.50

TUBE SOCKETS, used/unused: OCTAL-moulded/bakelite, ring or 2-hole mount, USED, $.35 ea
Octal, as above, UNUSED, $.60
Octal CERAMIC, used, $.65 ea
MINIATURE 7- or 9-pin, moulded or bakelite, unused, $.35 ea
Mini 7-pin CERAMIC, unused $.60
LOCTAL wafer-style 2-hole, $.50
SUB-MINI SOCKETS, in-line, $.75
SUB-MINI, round short-lead $.75
SUB-MINI, round, long-lead $.85
JOHNSON CERAMIC SOCKETS
#122-105-047 for 829, $4.00
#122-206 without collar; for 8008/5C22 unused, $6.00
4-400A/3-500Z SOCKET, see page 20: ORON #410S, $27.50; 2/$50.
+ + + + + + + + + + + + + + + +
THYRATRON SOCKET, right angle black phenolic; #146-106 or =: Used, $4.00; Unused, $6.00
* * * * * * * * * * * * * * * *
CERAMIC PLATE CAPS for 3/8" dia tube caps, unused, $1.15
CERAMIC 5/8" CAP, used, $1.25
METAL 5/8" CAP w/braid, 2/$1.
TUBE SHIELDS for 7-/9-pin mini tubes (specify tube#) used $.40
SHIELD for 4-400A, used, $6.00
* * * * * * * * * * * * * * * *
BLACK IERC-type SHIELDS, used:
#TR5015 for 6AK5-size, $.85
#TR5020 for 6BA6-size, $.85
#TR6015 for 6DJ8-size, $.95
#TR6020 for 12AX7-size, $.95
#NW6-6520 f/12AX7; new, $1.35

TERMINAL BLOCKS--TELEPHONE TYPE
#TT4X10F4A, 4 rows, ten terminals each; total 40. Size: 3.5x3x2. Unused, $4.25

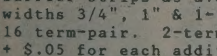
879-9661 3 rows of 30 terminals one side wire wrap. size 8-7/8x2-3/4x1-3/4 $3.50

AIRCRAFT STYLE TERMINAL STRIPS
AN-3436-2-6 6 term. 4x7/8x11/16 6-32 studs on 19/32 centers .55

5BK-22 BOX Consists of 3 AN-3436 terminal strips 13 term. each & 2 AN-3436 9 term. ea. The 10/32 studs extend thru. the phenolic board and have solder terminals. Board size 5½x8½x2; 4lbs $2.75

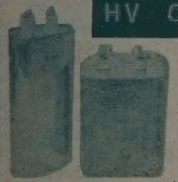
RF TAP SWITCH

5-POSITION CERAMIC TAP SWITCH for 100 W WW-2 transmitter; 2.3x2.3x1.8, 1 lb sh. #3Z9605 unused, $3.95
10/$32 100/$265.



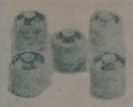
TERMINAL STRIPS with clipped wire Barrier strips as available in widths 3/4", 1" & 1-1/4"; 2 to 16 term-pair. 2-terminal, $.35; + $.05 for each additional term-pair. (We ship closest size.)

HV CAPACITORS



ENERGY STORAGE-types; non-PCB: 8 mf 4000 VDC case ground; 8.3x3.5x2, 4 lbs sh. $10.00
+ + + + + + + + +
88 MFD 1200 VDC, 10x4.5x3.5, 7 lbs. Used, $15.
12 MF 4900 VDC 7.3x4.4x2.8, $16

Capacitors



CENTRALAB 850-SERIES high voltage "door knob" capacitors, 0.5" H x 0.75" dia; Used, $4.95 ea
Specify: 10 or 75 pf (7.5 KV) or 100 pf (5 KV).
+ + + + + + + + + + +
TYPE 858, 1000 pf 5 KV, $8.
850, 500 pf, NEW, $8.

MICA CAPACITORS used in RF power circuits. JAN CM-size less than 1.8"x1.6"; used, $1.25	MFD	WVDC	CM
	.02	600	55
	.01	1200	
	.022	1200	60
	0.036	600	60
	.0062	1200	55
	.0004	2500	55
	35 pf	3500	60

+ + + + + + + + + + +

CM55 .001 mf 2500 WVDC, $2.
.002 2500 , $3.
CM65 .01 2500 , $3.
.015 2500 $3.50
.002 3750 , $5.
+ + + + + + + + + + + + + + + +
F1L-size MICA, 2.8x1.5x1:
0.006 mf 2500 WVDC, $4.00
0.0001 mf 3000 WVDC, $4.
0.001 mf 4500 WVDC, $5.50
0.002 mf 3000 WVDC, $5.50

ERIE 1202 EMI SUPPRESSION CAPS, 1 KV; used: 1000 pf, $.75; 2200 or 7000 pf $1 ea
- - - - - - - - - - - - -
F3L 0.007 mf 500 VAC, $7.50

COMPUTER GRADE

MFD	V	SIZE	PRICE
23000	7	5.5x1.5	$ .60
61000	10	4x2.5	1.50
100000	10	5.5x3	2.25
28000	15	4.5x2	1.50
5200	20	3.5x1.4	.75
40000	20	4.8x2.5	1.75
58000	20	6x3	1.60
25000	30	4.5x3	1.75
54000	30	6x3	3.00
18000	35	4x3	2.00
25000	35	4x2.5	2.50
37500	35	6x3	3.25
19000	40	4.5x2.5	2.50
51000	40	5.5x2.5	3.50
4900	50	3.5x1.5	2.00
16000	50	4x2	3.25
26000	50	4x2.5	4.25
3500	55	4x3	1.50
10000	75	4x2	4.00
20000	75	5.8x3	5.25
1400	99	4x2 dents	.75
3300	150	4.5x3	4.00
1250	180	4.5x2.5	2.00
500	200	4x2	1.65
1000	200	3.5x1.8	2.00
1700	200	5.5x3	2.25
2450	200	4x3	3.25
360	250	2.3x2	1.75
2200	350	5.5x2.5	7.50

Buy 5 or more one type, take 20% OFF PRICE!

++++++++++++++++++++++++++
ELECTROLYTIC (E)/PAPER (P)
2500 mf 3 V (E) 3.5x1, 6/$1
6800 mf 16 V axial, 4/$1.
4.7 mf 35 V tantalum, 3/$1.
1000 mf 35 V axial, 3/$1.
500 mf 50 V axial, 3/$1.
1500 mf 63 V axial, 2/$1.
0.47 mf 100 V mylar, 4/$1.
250 mf 150 V axial, 2/$1.
4.32 mf 200 V mylar. $.75
2 mf 200 V metalized. $.65
3x20 mf 3x250 V (P), $.80
60 mf 250 VDC (P), $.75
130 mf 300 V, 40-20-10 mf 50 V (E); 3.5x1.3 dia. $1.
120-100-100-100 mf 350-300-150-75 V; 4x1.3 dia, $1.50
0.1 mf 400 V axial, 2/$1.
0.5 mf 400 V Metalite, $.75
110-50-20-150 mf 450-450-250-25 V; 4x1.3 dia, $2.25
0.01 mf 630 V mylar, 4/$1.
0.05 mf 2 KV Glassmike $3.
0.1 mf 3 KV glass cap $4.50
* * * * * * * * * * * * * * * *
1 KV DISCS: 7/$1. 100/$6.
0.0001 mf 0.002 mf

ROTARY SWITCHES

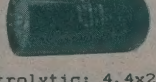
1-POLE 17-POSITION, 2¼" dia bakelite; 3/8x¼" dia shaft. CRL #PA3001 NEW $1.95; 2/$3
- -
FIVE-DECK ROTARY SWITCH, each 2-pole 4-pos; bake-4x1,6" dia; shaft 1/2x1/4" dia. #SW/RM39; used, $1.25
MINI-ROTARY, 1-pole 3-pos. shorting. 1" dia; 1/8" dia shaft. No hardware. #LED-M13-S, unused, 75¢
THUMB-WHEEL WAFER SWITCH, 18 POSITION, NUMBERED, 2 HOLE MTG. HORIZONTAL OR VERTICAL, 2¾x3/8" # 960 NEW $1.25
SAME AS ABOVE 10 POSITION 2¾x3/8" #980 NEW $ .75
2-DECK 5-POS w/OFF-ON switch 2/SPST 8 A 125 V. 2¾x1½, ¼" d shft. #2D5PSW $3.
MALLORY NON-SHORTING TYPES: #3254J 3-circuit 4-pos $1. #3243J 4-okt, 3-pos., $1.10
2-DIGIT THUMB SWITCH 00 to 39; can be modified to 99 but one digit has 1-pole 10 pos wafer, other binary code output. Digitran Serie 23000; 1x1½x1½. NEW $1.75
- -
Single-pole 9-pos phenolic rotary. 3/8"x1/4" dia shaft O/a 1.5x1.1. #467MX, $1.50
- -
3-POLE 4-POSITION, #4-pos momentary; 1" dia bakelite. #SW/PRC-10, unused, $1.00

DAVEN SWITCH

18-POSITION, CONTINUOUS TURN, 2" dia. Zinc-silver contacts. ¼" dia shft. #3Z9825-92.2 Unused, $3.00
- -
Miniture tap switch 1 pole 7-position rated 1 amp. 1x½". Grayhill 7 pos. $2.00
- -

STAND-OFF HEX SPACERS male-female thread or female-female (f-f):

Length	per 20	per 100
4-40 threads 1/4" dia metal		
0.75"	$4.25	$12.50
1.375	$5.50	17.00
6-32 threads 1/4" dia metal		
0.375	$3.00	$10.00
0.625	$3.50	12.00
0.75	$3.75	12.50
1.0	$4.00	13.50
1.5 (f-f)	$4.25	14.50
2.0	$4.50	15.00
3.0	$5.50	18.00
8-32 threads 7/16" dia:		
3.0	$7.00	21.00
4.25 (f-f)	$8.00	24.00
1/4"-20 threads 9/16" dia:		
3.25 (f-f)	4/$2.50	20/$10
1/4"-28 threads 7/8" dia:		
2.87	4/$3.50	20/$14



MOTOR-START CAPACITOR, 50-60 mfd 330 VAC plastic enclosed electrolytic; 4.4x2" dia. #MSP-77725, $2.25 ea

SPRAGUE JX FILTER 0.1 mfd 2500 VDC; 4x1. #S3312, $2.
0.1 MF 3500 V C-D mfg $2.50
+ + + + + + + + + + + + +
NON-PCB AC CAPACITORS:
7.5 mf 260 V, 2x2.8x1.3, $2.
5 mf 600 V, 2x4.5x1.3, $3.00
7 mf 660 V, 2x5x1.2, $3.50

U-106 TERMINAL BINDING POSTS, "push" spring-loaded type; silver-plated. Threaded 1"; o/a 1.9". Used $1 ea.

Parts Kits

HARDWARE ASSORTMENT from electronic equipment such as washers, screws, rivets, nuts, terminals; 2 lbs $2.00

MICA CONDENSERS 25 ASST. 10 MMFD To 6800 MMFD. $1.50 a KIT
COMPUTER GRADE CAPACITOR ASST. 10 capacitors ranging 5 to 30 VDC & 1000 to 50000 mf; used. 10 lbs sh. $4.00

PRECISION RESISTORS 25 asst. on boards. Carbon or wire wound 1%. $1.50/kit

RESISTORS WIREWOUND 25 ASST.
5 to 20 Watt. Wide range of values some tapped. 25 ASST $1.50

VOLUME CONTROLS 10 ASST. Popular Values $2.00

TERMINAL LUGS, ring spade, crimp types. Wide variety of sizes for all uses in plastic box, APPROX. 200 PCS. $3.00

ROTARY WAFER SWITCH six different types Multi-decks and contacts $1.75

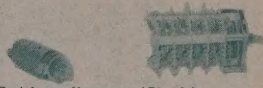
RESISTORS

25 W 4 ohm Slider + 4Ω fixed; 4x0.6 $.75
100 watt 750 ohms, 6.5x1.3" dia, $1.25
100 watt 7500 ohms, 8.5x1" dia, $1.25
100 watt 11300 ohms tapped 3000-7500-23-23-750; 8.5x1.1 $2
166 watt 200 ohms, 12"x1.3" dia, $1.75
- - - - - - - - - - - - -
Clip-Mount POWER RESISTORS, 90 W 7.5"Lx1" dia. $1.50 ea: 800, 10K,
* * * * * * * * * * *
35KΩ non-induct, $3
- - - - - - - - - - - -
120 W 7000 ohms 9.5x1.3" dia, $1.75 ea
140W 11 11.5x1.2 $2

CAGED RESISTOR, 25 ohm 100 W mounted w/cover. 3x11.5x3, 4#. #4T78473, $4.

* * * * * * * * * * *
NON-PCB CAPACITORS
10 mf 350 VAC; 2.8x3x1.8, 1#. Used, $3.
15 mf 440 VAC, 2x4.3x1.1. Unused, $4.25
50 mf 370 VAC, 3.5x10x1.9, 3#. Used, $8.

18-POS 1-POLE NON-SHORTING SWITCH w/external auxillary 3 amp low-voltage contacts that "make" f/ 180° of rotation. 2.3x1.8x1.6, 1/4" dia shaft. #258-5352, $3.00
+ + + + + + + + + + +
THREE DECK 7-POSITION TAP SWITCH w/screw terminals; 10 amp shorting contacts. 1.8x2x3.1 + 1.3"x0.3" dia shaft. #ES32303LM, $3.50
+ + + + + + + + + + +



Cutler-Hammer/Shallcross MIL-quality rotaries:
#CH-6767, Series 1 single pole 6-pos 8-deck; make-break 1 amp 28 VDC/0.35 A 115 VAC. 2.5x1.3. $7.95
CERAMIC ROTARY, 2-deck 6-position each. Shaft 3/8"L x 1/4" dia; o/a 1.8"Lx1.5" dia. #CER2D6P-92, $2.50
#CH-2J62A3 Series 2, 3-pole 3-pos 1-deck non-shorting; Au-plate, 2.3x2.3x1.5, $5.
+ + + + + + + + + + + + + + +
GRAYHILL #44D30, 1-pole 12-pos with adjustable "stop". Break 1 amp resistive, carry 10 A 115 VAC non-short. 1.5x1.3" dia. NEW, $6.95

RESISTORS

5/10W, $.25; 20/25W, $.35
5 WATT: ohms 10, 82, 100, 350, 500, 2000, 5000, 7500, 12500, 15000
- - - - - - - - - - - - -
10 WATT: 0.33, 2, 60, 84, 200, 1100, 2K, 3500, 15K
- - - - - - - - - - - - -
20 WATT: 1000 ohms
- - - - - - - - - - - - -
25 WATT: 0.33 630 5000

PRECISION RESISTORS $.30 ea
1 ohm 0.50 watt, +/-1%
1.5 ohm 3.0 watt, +/-5%
4K ohm 0.50 watt, +/-1%
7500 ohm 0.25 watt, +/-1%
10K ohm 0.25 watt, +/-1%
25K ohm 0.25 watt, +/-1%
30K ohm 0.33 watt, +/-1%
100K ohm 0.25 watt, +/-1%
250K ohm 0.25 watt, +/-1%
1.04M ohm 0.33 watt +/-1%
- -
6560 ohm 6 W +/-0.25%, $.45
28K ohm 0.25W +/-0.05% $.40
51K ohm 0.5 WW +/-0.1% $.40
999 Megohm 10 watt +/-1% 6.3"Lx0.3" dia, $1.25
39 ohm 15 W DALE 1%. $.75
50 ohm 20 W DALE 3% $1.25
100 ohm 50 W DALE 3% $1.75
250 ohm 250 W DALE +/-3% 3.5x1.8x3. 2 lbs sh. $4.50
350 ohm 15 W DALE 3%, $.75
1400 ohm 120 W DALE +/-1%; 3.5x1.8x3. 2 lbs sh. $3.50
3000 ohm 25 W SAGE 1% $1.00
- -
0.4 OHM 38 WATT, $.75
2.5 OHM 50 WATT, $1.00
20 OHM 47 WATT, flat, $1.00
1000 OHM 38 WATT, $.75
4K OHM 5 W NON-INDUCT, $.65
100K OHM 40 WATT, $2.00
- -
Variable SLIDE RESISTORS:
1 OHM 10 WATT, $.65
15 OHM 35 WATT, $1.15
20 OHM 25 WATT, $1.00
30 OHM 220 WATT, 2#, $2.50
100 OHM 150 WATT, $2.00
500 OHM 50 WATT, $1.25
1000 OHM 20 WATT, $1.00
2500 OHM 25 WATT, $1.00
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EDGEWOUND RIBBON RESISTORS:
0.85 OHM 1K W, 15x5.5x3 $15

MINIMUM ORDER $10.00

HIGH VOLTAGE TRANSFORMERS

PRI	HZ	SECONDARY	SIZE	WT	STOCK #	PRICE
105/115/125 210/230/250		780 VCT 65 MA 6.3 VCT 4 amp, 5 V 2 A	5.3x5.5x4.3	15	#A3499	$5.95
115	60	500 VCT 100 MA two 5 V 3 amp	4.8x5x3.5	10	7467177	$6.95
115	60	912 V 560 MA	4.5x5.4x5	24	#T912560	$20.00
115	60	360 V 125 MA tapped 7/332/346 V, 228 V 15 ma, 6.6 V 4.2 A.	3.8x5x3.3	8	#2Z9613-869	$5.00
115	60	194 V 345 MA	3.3x4x2.5	6	#T194345	$7.95
115/230		840/350 VCT 60 MA 6.3 V 9 amp, 2/6.3 V 0.6 A	4.4x5.3x4	10	#25A48755	$6.95
115	60	650 VCT 70 MA 6.3 V 3.8 amps	3.8x4.3x3	7	#T1/T1060	$6.95
115/230		780 VCT 55 ma 5 V 2 A, 6.3 V 3.25 A, 6.3 V 1.5 A	4x5.3x3.3	8	#T1/TS723	$7.50
115	60	600 VCT 70 MA 13 V 5 amp, 5 V 2 A, 5 V 6 A, two 5 V 3 A	5x5x3.9	22	#T13/PE110	$8.95
115	60	450 VCT 75 MA 6.5 V 4.5 amp	3x3.8x3.4	6	#T1/URM25	$6.95
115	60	900 VCT 105 MA 5 V 2 amp, 6.3 VCT 3.5 A	3.7x5.3x4.1	8	#PCR-105	$8.95
115	60	900 VCT 170 MA	5x5x3.8	8	#L406401	$7.50
100/110/120		210 V 223 MA 6.3 VCT 5.6 amp	3.9x5.2x3.3	10	#688-5852	$6.95
115	60	360 V 125 MA tapped 332/346 V, 228 V 15 MA, 6.6 VCT 4.2 A	4x5x3.3	13	#7489394	$5.95
115/230		470 VCT 200 MA 6.4 V 6.7 amp, 5 V 4 A	5.1x5.5x4.4	17	#T470200	$12.
115/230		444 VCT 97 MA 6.5 VCT 3.2 amp, 12.4 V 390 ma	4x4.2x4	7	#GA51434	$8.95
115	60	900 VCT 250 MA	4.3x4.3x3.8	15	#SS-S-P243	$8.95
115	60	620 VCT 1 AMP 140 V 10 ma	4.6x5.9x4.5	24	#SV-C-1433	$25
115	60	510 VCT 25 MA 12.6 V 900 ma	3.2x3.6x2.8	4#	#T1/LM	$4.95
115	60	600 VCT 40 ma 6.3 V 2.5 amp, 6.3 V 1.2 A	2.5x3.1x3	4#	#T101/ME26	$5.95
115	60	570 VCT 40 ma (220 VCT 65 ma int), 6.3 V 3 amp	3.5x3x2.8	5#	#T1/TA182	$4.95
115	60	750 VCT 110 ma 5 V 2 amp, 6.3 V 3.6 A	4.3x5.5x4.3	9#	#T3/SG15,	$8.95
115	60	820 VCT 100 ma 5 V 2 amp, 6.3 V 2.5 A, 6.3 V 1.25 A	4x5x4.4	14#	#T1/TS382,	$7.95
115	60	460 VCT 50 MA 6.3 VCT 2 amps	2.5x3x2.5	4#	#7514	$4.95

LOW VOLTAGE TRANSFORMERS

PRI	HZ	SECONDARY	SIZE	WT	STOCK #	PRICE
115v	60Hz	6v/1A 45vct/.5A	3x2½x2½	2LB	#1461312	$2.95
220/440	60	three 2.5 V 5 A 2.5 V 15 A, 3 KV test	6x7x4.5	13#	#U8370	$8.
100/115		2.5 V 10 A	4.5x6x3	8	#T2/610E	$5.95
115	60	6.4 VCT 4 AMP 5 VCT 4 amp. 33 V 150 ma	4.5x4.5x3.5	7	#T7/R19	$6.95
115/115	60 Hz	5 VCT 7.5 A 6.3 V 1.55 A	3.4x5.5x2.9	8	#578-1616	$5.95
115	60	24 VCT 6 AMP	2.9x3.4x3.5	7	#90015	$10.95
115/230		6 V 14 AMP or 6.3 V 2 amp	3.5x4.4x3	8	#TF-202	$5.95
115	60	6.3 V 3.6 A two 15 V 4 ma	3.1x3.5x3.9	4#	#762806,	$3.95
115	60	6.3 VCT 2 AMP	2.3x2.9x2	3	UTC #H-131	NEW $6.
115	60	24 VCT 50 VA	2½x3x2	3	#BEL1269001	$5.50
115	50-400	34/2.7 A 3.0/250 MA	4½x4½x4	14	853-6026	$4.50
115/230		12 V 16 A or 24 V 8 amps	3.5x4.1x3.5	15	Stancor #P6379	$20.
115	60	6.5 VCT 8.5 A 6.5 VCT 5 A, 6.5 VCT 2.8 A, 5 V 2 A, 5 V 1	4x6x4.3	14	#SMB-202906	$5.95
105/115/125		5 V 10 AMPS	3x3.x2.6	4	UTC #N586	NEW $8

215 V 60 Hz 2.5 VCT 10 A.; 4½x3½x3½, 12, #2253 $2.95

STEP-DOWN AUTO TRANSFORMER

230 to 115 V 50-60 Hz 500 VA; 2-cond cord & outlet. 3.3x3.8 x4.6; 9#. NEW: Signal #150, $20.

TRIAD #R-11A XMFR Pri: 115 V 60 Hz Sec 700 VCT 90 MA 6.3 VCT 3.5 amps 5 V 3 A. 1500 V-rms test. 2.8x 3.8x3.5, 6 lbs. NEW. $9.95

PRI: 115 V 60 Hz Sec: 870 VCT 250 MA; 5x4.8x4, 12#. #T5/610, $9.95

Sec: 900 VCT 160 MA; 4.8x5x3.8, 9 lbs. #746618, $8

#SMB-202912, 448 V CT 20 ma; 2x3½x2½ 3 lbs. Used $2.50

Pri: 115/230 VAC 60 Hz Sec: 52 VCT 600 MA DC, if Cap input. 2x2.6x2.1, 2 lbs. CEI#16170, used $6

Pri: 115 VAC 60 Hz Sec: 45 VCT 500 ma; 3.8x2.5x2.5, 2#. #203A6725-1, $2.50

Sec: 35 VCT 1 amp; 2.5x2.8x3, 3 lbs #1341155-2, $2.50

Pri: 115/230 VAC Sec: 480 VCT 95 ma 480 VCT 75 ma 6.3 V 3 amps 3.3x5x3.5, 10 lbs #T1/CV542, $8.95

Pri: 120 VAC 60 Hz Sec: 2000 VAC 125 UA, 400 VCT 25 ma 6.3 V 1.2 amp, 26 V 400 ma. 3.5x4.3 x3.3, 6 lbs sh. #T101/CP95, $5.95

POWER SUPPLY TYPE 115 VAC 60 Hz primaries Unused

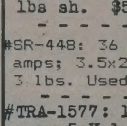
#KAL-2334: 24 VCT 3 A, 40 VCT 575 ma, 105 V 350 ma; 4.5x3.8x3.3, 8 lbs sh. $5.95

#PT-09: 48 VCT 2.5 amps; 3½x3¾x3, 6 lbs sh. $5.95

#SR-448: 36 VCT 2 amps; 3.5x2.9x2.3 3 lbs. Used $4.95

#TRA-1577: 15 VCT 3 amp, 5 V 1 A. 2½x3 x2½, 4 lbs. $3.95

#EMC-56: 50 VCT 3A 3¼x3½x3½, 8 lbs. $5.95 ea; 10/$54.



Pri 115 VAC 47-63 Hz all; #115-2054, 115 V 200 ma, 6.3 V 6.25 A; 2½x3¾x3 5 lbs sh., $4.95 #435-2054, 435 V 370 ma; 2½x3¼x3½ 8 lbs sh, $7.95 #1000-2054, 869/930/1000 V 300 ma; 3½x4¼x4½, 14 lbs sh., $11.95

FOR RA-62 RECTIF. USED TO POWER SCR-522 REC-TRANS PRI: 110/220 VOLT 40-60 CYCLE SEC: DC VOLTAGES 300 @ 230 MA BIAS 150 @ 8 " 13.4 @ 3.9 A. 5x5½x8; 30 LBS. #3340-296-862-192 PRICE: $7.95

4 5 0 V 4 4 0 M A Run 450 V to 115 V 200 W stepdown xformer "backwards" to get 450 V 440 MA output from 115 V 60 Hz input. 4x4.5x4, 12#. #637-003-814, NEW, $15.

Pri: 115/230 VAC 50-60 Hz Sec: (12 V 14 A. by wiring 12 V secondaries in parallel) or 12 V 9 A, 12 V 3.2 A, 12 V 2 amps; also 44 V 2.5 amps. 5¼x4¼x4½; 22 lbs #P-601719, $7.95

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PLATE XFORMERS
Pri: 115 V 60 Hz Sec: 760 VCT 150 MA, 6.3 VCT 5 A, 5 V 3 amps; 4.5x 5.4x4.5, 12 lbs. #T1/AM20, $10.00

Pr: 115 V 50-60 Hz Sec: 20 V no-load or 12.5 V 2 amps; on 4" dia plate. 3x3x2.5; 2 lbs. #FR-24960, $2.50

PRI: 115 v. 50/60
SEC: 100 VCT 1.5A
20 " 3.0A
2/20 v. 3.0A
35 v. 5.0A
WITH CAPACITOR
GE-9T91A4069
REQ. VENTILATION
5¼x6x7⅞; 23 LBS.
~~$7.95~~ $5.95

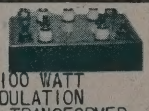
#2Z9974, p/o Hammarlund SP-210; PP-AB driver for 6F6G. 5#. $6.00 #2S287A/101 audio pack f/ BC-348E-M-O-P; 3#. $8.00 #2C6191A/T3 mic transformer for BC-191A; 3#. $6.

MODULATION

p/o VHF Xmitter: Pri: 9000 ohms CT Sec: 7000 ohms, 85 ma 20 watts. 3.5x4.8x3, 8 lbs. #AF/T593, $7.95

TCS MODULATION
Pri: 6000 ohm Sec: 6000 ohm 20 watts HF; 200-5000 Hz. 3.5x 3.5x2.9, 4 lbs. #677N201, $6.95

ARC-38 MODULATION
Pri: 5500Ω 235 ma or 2000Ω 300 ma Sec: 200Ω 20 ma 90 watt max. 3.1x 3.5x2.9, 4 lbs sh #677-0923, $7.95



100 WATT MODULATION TRANSFORMER PRI: 7500 OHM CT 30,000 " SEC: 3000 OHM 35W 200 MADC 600 CT. 1 W RMS TEST 1,2,3 500 v. OTHERS 2500 v. 200-3500 CPS. 4½x4½x4½; 11 LBS #5950-646-3092 PRICE: $4.95

TRANSFORMERS LISTED BELOW HAVE 115 VOLT 60 HZ PRIMARIES UNLESS OTHERWISE STATED

Sec: 18 V 5.4 A, 26 V 1 A, 6 V 900 ma, 25 V 500 ma, 35-10-0-10-35 V 5 A. 4½x4½x4, 16 lb #401-21 unused $8.95

SEC: 40v 2.5A/6.3v 1.5A 3½x3½x5½; 10 LBS. #43278 $4.95

Sec: 30 vct 560 ma 40 vct 450 ma 2½x2½x2; 2 lbs. #401-6 $3.00

52 VCT 2.6 A

Pri: 115 VAC 60 Hz Sec: 52/33/18 VCT 2.6 amps; 3.2x3.8x3, 6#. #EIA606-451 NEW $6.95

Sec: 27 VCT 2.2 AMPS 2.5x3x2.3, 4#. NEW: Wabash #4462, $4.50

Pri: 115/230 V 60 Hz Sec: Dual 64 VCT 2.2 amp; 5.8x4.6x5, 15#. #5610-00015, $12.00

32 V 3.5 A

secondary; 3.3x2.8 x2.3 open frame; 4#. #X5157308 used, $5.95

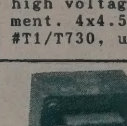
Sec: 19.5 V 6 A, 3x3.8 x2.8, 7#. #5608798, $7

22 V 20 AMP

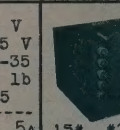
Sec: 22 V 20 AMP, 38 VCT 6 A, 34 VCT 9 A; 4.3x5.8x5, 18 lbs. #MA-TC05023, $22.00

1510 V 'Y'

3 Ø DELTA to 3 Ø "Y" 400 HZ TRANSFORMER



Pri: 200 V delta 3 Ø 400 Hz. Sec: 1510V "Y" 500 MA originally produced 2000 VDC for 1 KW xmitter. Usable with some automotive alternators to run high voltage equipment. 4x4.5x2.5, 5#. #T1/T730, used, $20.



POWER PACK: 240 VDC 400 MA output 5x4x5, 15#. #3930, used $12.

Sec: 440 VCT 53 MA, 12 V 2 A, 6.3 V 2 A 2.8x3x2.5, 4 lbs sh. #T3/LS128, used $5.95

SEC: 40 VCT 1 A, SIZE: 3½x1½x2; 1½ LBS. URC#56000 $2.95

SEC: 24@2A/6.3@100MA 24@100MA. SIZE: 3½x3x3 4 LB. URC-LT-646 $4.95

SEC: 30 VCT 200 MA. 45 VCT 100 MA/2.5v30MA SIZE: 2½x1½x2; 1 LB. URC#374501-1 $2.95

Sec: 18 V 4 amp, 2.5x 3x2.8. 4 lbs sh. #SK-710202, NEW, $4.95

Sec: 21 VCT 6 AMP, 15 V 1.5 A, 10 V 3.5 A; 4x3.5x3.6, 9 lbs. #CR-N2415, $9.95 + + + + + + + + + + Sec: 80 VCT 2 amp, 12.6 VCT 1.5 A; 3.5x4.2x3.8, 8 lbs. Stancor #RP-2000, $8.

Sec: 18 V 1.5 A, 19 V 2.5 A, 10 V 4 A; 3x 4x3.5; 7 lbs sh. #BE12696, NEW, $4.95

22 VCT 3 A. 80 VCT 1.5 A.

PRI: 100,115 V. 60 HZ. SEC; 22 VCT @ 3 AMP. 80 VCT @ 1½" SIZE: 3½x3x4; WT: 8 LBS #3S92890015 $4.95

Sec: 65.5 VCT 7 AMP; 3.8x4.5x4.8, 12 lbs. #200UX-3901, $14.95

VIBRATOR TRANSFORMER Pri: 12.6 V 115 Hz Sec: 160 V 160 ma 2-1/8x2½x3½, 4 lbs #5950-243-5679, $4.95

Pri: 115 VAC 60 Hz Sec: 30/32/34/36 V 7 amp; 4.5x6.4x4, 18#. #672-1217, used, $14.

VERSATILE MULTI-OUTPUT TRANSFORMERS from DC power supplies. Each have primaries 100/110/120 VAC 60 Hz; secondaries 26-9-3-0.9 V (38.9 V total) @ same current and 150 VCT 200 ma winding. #021/022-0050, 4 amp output w/4 diodes; 2.6x3.8x3.5, 5#, $7.50 #023-0050C, 7 amps out, 3.5x4.3x3.5, 8#, $12

TRANSFORMERS

COMMERCIAL GRADE TRANSFORMERS suitable for constructing DC regulated power supplies or other. All 115 VAC 60 Hz primaries; end bell style with wire leads. NEW:

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#757-2658, 80 VCT 1.5 amp (3 A int), 115/230 V pri; 3.8x4x3.1, 9#. $5.95

#TS-465, 44 VCT 3.5 amp, 30 VCT 1.8 A, 9 V 1 A; 4x3½x3½, 7 lbs. $5.75

#701-221, 46 VCT 3.5 amps, 7.5 V 2 A; 4x3½x3¼, 6 lbs sh. $5.95

#12019, 28.5 V 6.5 amps: 3.5x4.3x3.5, 8 lbs sh wt. $11.95

#701-129, 50 VCT 2 amps, 6 V 2 A; 3½x3½x3, 5 lbs sh. $4.95

TRANSFORMERS

40 VCT 10A
23 V 25 A

Pri: 110/115 VAC
Sec: 40 VCT 10 amp, 23 V 25 amps.
5.4x6.3x5.4, 33#.
#7213-3077, $25.

As above, but sec 39.8 VCT 8.5 A, 22.7 V 12 amps.
#5602-1500, $12.

PRI: 115 V 60 Hz
SEC: 15 V 3 AMPS; 13 V 2 A; 6.3 V 7 A.
WITH CAPACITOR, 4½x3⅝x3¼; 13 LBS.
#PV-175-9, $4.95

AUDIO

STANCOR audio NEW: #A3837, pri 500-500 ohm; sec 0.06 to 48 ohm 15 watt 2.9x2.4x2, 2# $4.

20 WATT OUTPUT
Pri: 9000 ohms CT
Sec: 600/250/125/60/30 ohms;
20 W 50-10000 Hz.
3.4x4.3x3.1, 6#.
#T1/AM20, used $18

Pri: 600 ohms
Sec: 8 ohms 2 W
1.6"Hx1.3" dia
#T1/LS166, $7.50

Pri: 250/4000 ohm
Sec: 150, 600Ω CT
400-3000 Hz; 1½x1⅝x2⅛, 2 lbs sh.
#C-280/RM-39 $3.

MIC INPUT XFORMER
Pri: 100 ohms
Sec: 100000 ohms
2.3x4x2.3, 3 lbs.
#T3/AM20, used $5.

Pri 20KΩCT/30KΩCT
Sec: 1000Ω split, 1500 ohm split.
1/2"x1/4"dia. UTC
#DO-T39, NEW, $4.

Pri: 8000 ohms
Sec: 500 ohms
2 W 200-3000 Hz
2.6x2.6x2, 2 lbs.
#T115/R19, used $5

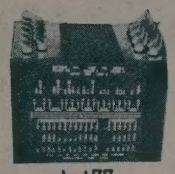
Pri: 10000 ohms
Sec: 600 ohms CT
1 W; p/o R-390A.
1.5x2.1x1.5, 1 lb sh. #AF/390A, $5.

Pri: 500 ohms
Sec: 8 ohms
2 W 200-3000 Hz
2.6x2.6x2, 2 lbs
#T113/R19. used $7

Pri: 50 ohms
Sec: 600 ohms CT
65 ma, 300-7000 Hz 1 MW; 1.6x2.4x1.6, 1 lb.
#32821, $3.50

Pri: 15000 ohms 70-10K Hz 100 WV
Sec: 600/500 ohm tapped 250/200 & 50 ohms 75 V WVM
1..9x3x1.8, 2 lbs
#TF4RX13EA, $8.50

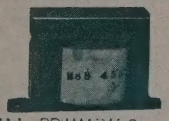
13000 ohms CT: 25/1000 CT ohms, 200-35K Hz. 3x3.5x2.5, 3#. #T2/SG-15, $5.



I-177 TUBE CHECKER TRANSFORMER
SIZE: 4½x4½x4,5⅛LB
STK.# 2Z96|3.667
PRICE: $4.95

PRI: 26/115/230 V 60 HZ.
SEC: 13 v. 8 AMPS TWO 230v WINDINGS TO SUPPLY 370 VDC 600 MA.
5⅝x5⅛x5; 22 LBS.
2Z96|3.514 $7.95

Pri: 115 V 60 Hz
Sec: 12.6 V 0.3 A 125 V 13 Ma; 2.3x1.9x1.6. Stancor #P-8624, NEW, $3.



ALL PRIMARIES 115 VOLT 60 CYCLE
SEC: 6v. @ 500 MA. 1⅝x1½x1⅛; 3 oz.
URC#137B648 $1.25

Sec: 6.3 v. 1 amp 1½x1½x1½; 4 oz.
BE16073-001 $1.50

Sec: 12 V 2 amp 2.3x3x2, 2#; used
#P-8130, $3.50

SEC: 2/30 v. 250 MA 2x1⅝x1½; 4 oz.
URC#60605 $1.50

Sec: 6.3 VCT 1.5 A 2x2½x2, 1 lb sh.
#F-16X, NEW $1.95

PLUG-IN XFORMER
Sec: 24 V 20 VA
2x2.8x2, 2 lbs.
#BE-8002, $2.00

AUDIO BANDPASS
2320 Hz peak, 1285-4200 Hz Band Width;
Pri 600/250 ohms
Sec: 120000 ohms
2½x2½x4, 4 lbs sh.
#3Z1892-19, $4.95

MIC TRANSFORMER
Pri: 50 ohms 30 ma
Sec: 500 ohms, 400 to 1900 Hz. 1½x1¼x1½, 1 lbs sh.
#T204/PP-115 $2.00

Pri: 500 ohms CT
Sec: 500 ohms CT, 600-12000 Hz; 2½x2x2⅛, 2 lbs sh wt.
#T203/PP-115 $2.00

#T10/TRC1, 50 ohms to 500 ohms; 2.3x2.4x2.1. $3.25
#T12/TRC1, 500 ohm to 10K ohms; 2.3x2.4x1.4, $3.00

LOW VOLTAGE TRANSFORMERS

Pri: 105/110/115/120/125 V 60 Hz
Sec: 6.6 V 18 amp 3.5x5.5x4; 14 lbs
GE#9T35Y159 $5.95

Pri: 115/230 V 50-60 Hz
Sec: 4.5-6.5 V 12 A; 5x6.1 x4.5, 21#. #T-4565, $6.50

Sec: 17 V 1.5 A, 19 V 1.5 A 2.5x3x2.5, 3#. #54-995, $4.

Sec: 16.5 VCT 2 amps; 2.6x2.5x2, 2#. #BE15869, NEW $4

Sec: 26.8 VCT 1 A; 2.5x2 x2.3, 2#. #401-17, $3.00

Sec: 6.3v 3.1a/6.3v 2.5a/6.3v 0.45a/6.3v 0.30a/2-5.0v 2 amp.
TF1A01JA $3.95

Sec: 12 VCT 2.5 amps; 2.8x3 x2.3, 3#. Thordarson T60479 #074-3163, unused. $4.50

Pri: 12.6 V 2.5 amps
Sec: 260 V 65 ma; 3.6x3.5 x2.6, 8#. #T16/110, $6.95

Sec: 12.5 V 2 amp, 150 V 2 A; 4½x3⅝x4⅝, 13 lbs sh. #773605, unused, $6.96

Sec: 6.5 vct @ 3.4a/6.5vct @ 13.7a/5.2v @ 6.3a/5.2v @ 2.1a. 4½x3⅝x6; 15 lbs.
TRC-SMB-202910 $6.95

CONSTANT VOLTAGE by Sola, input 95-130 VAC 60 Hz Output: 25-27 VAC 3.5 amps 5x3.8x4.8, 12#. Used, #22662, $6.

FLYBACK TRANSFORMER, 5 V input yields 300 V 80 KHz output; use in bug zapper etc
#FLY-800402 $1.95; 3/$5.

Pri: 220 VAC 60 Hz. Sec: 2/5 VCT 3 A, 5 VCT 6A. 4x4x3 10#. Kenyon #T355-220, $8.

AM-6154 PLATE TRANSFORMER, part of GRT-21/22 power amp
Pri: 105/120/210/240 VAC 47-440 Hz
Sec: 1752 V 270 MA; 20 lbs sh. #T1/AM-6154, used, $45. CHOKE for above, 8 HY 300 MA, 6#. #L1/AM6154, $15.00

ISOLATION, pri 115/230 V 60 Hz; sec 105 VAC 1 amp 2.2x2.6x2, 3#. #A762101, NEW, $6.95 ea; 2 for $12.

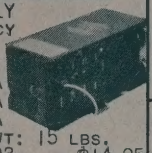
ULTRASONIC AUDIO, 5 to 50 KHz response. Pri: 6K ohms tapped 1500/1500 ohms. Sec: 600 ohms 3 W tapped 150/150 ohms. 1.9x3x1.8, 2#. #AF-UL6K, used, $5.95

5000 ohms: 50/500 ohms, 200-6000 Hz 2 W. 1.9x2.3 x1.6, 1#. #T2/LS128, $3.50

R-390A TRANSFORMER-POWER SUPPLY p/o R-390A receiver; tube sockets for two 26Z5's. Transformer input: 2 X 115 VAC 48-62 Hz. Output: 570 VCT 200 MA, 25.2 VCT 1.2 amps, 6.1 V 8 A; 4x7x6, 20 lbs. #PS-R390A, used $30. TRANSFORMER ONLY #PX-2214, unused, $35.00

HIGH VOLTAGE TRANSFORMERS

DC POWER SUPPLY
PRI: 115v 60 cy
SEC: -8000 v. @.25-1 MA.
-120v @ 15 MA
- 24v @ 1.2 A
-16.v @ .45 A
SIZE:4x4x9½; WT: 15 LBS.
#GE9T63Y2280G03 $14.95



Sec: 1860 VCT 130 MA, 1500 WV; 4.3x5.5x4.5, 19 lbs.
#SMB-202909, used, $15.00

Sec: 300 VCT 1.1 A intermittent, 342 VCT 350 MA; 4x4.5 x3.5, 9#. #557-6140, $12.00

Sec: 528 VCT 20 ma, 6.3 VCT 3 A. 3.3x2.6x2.8, 4 lbs sh.
#BE-15535, used, $4.95

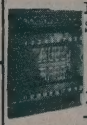
PRI: 115 VAC 60 Hz
SEC: 900 VCT 250 MA,
4½x4½x3⅝; 15 LBS.
#SS-S-P243, $7.95

PRI: 115/230 v. 60 HZ.
SEC: 520 VCT @ 90 MA. 6.3v/1⅝ A. 6.3vCT 4A.
SIZE:4⅝x5⅛x3⅝; WT: 7 LBS.
#TBIRX03LB/FGC-29 $5.95

Sec: 820 VCT 120 ma, 5 V 3 amp, 6.3 V 3 A; 4.5x5x4.8, 12#. #T1/SG71, used, $8.95

Pri: 115/118/121/124 VAC
Sec: 42 VCT 2.5 amp, 2 VCT 12 amp; 6.3x5.8x4.8, 14 lbs sh. #253-2593, $8.95

Pri: 230 VAC 60 Hz
Sec: 375 VCT 50 ma, 6.3 V 2 A; 2.5x3x2.6 3#. #8316527, $2.50



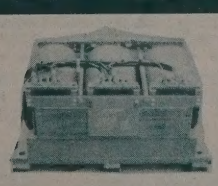
Pri: 115/230 V 60 Hz
Sec: 920 VCT 100 ma 4/6.3 V 8 amps, 5 V 6 A, 5 V 2 amps 5x5x6, 20 lbs sh.
Paeco #910-96R $12.

Pri: 115 VAC 50-1000 Hz
Sec: 600 VCT 100 MA, 6.3 VCT 2.8 amps, 5 V 2 A; 4.5x4.5x3.7, 9 lbs sh.
#57-4056, used. $7.95

ISOLATION

DUAL PRIMARY, each 100/110/120 VAC 60 Hz; can be wired for 200/220/240 V input. Secondary 120 V 1.1 amp tapped 100 V 1 A; 8 V 2 A -0-8 V 1 A; and 16 V 1.5 A -0-16 V 1 A. Mounted on board w/AC socket, fused secondaries, diagram. Xformer 5½x4⅝x4, 20 lbs sh. #97313, NEW: $12.95 each; 2/$22.00

3400 V DELTA-Y



Pri: 210/220/230/250 VAC 50-60 Hz 3 phase delta Y
Sec: 3400 V each 1.6 amp wye secondary; 12x26x16, 400#. #T801/TMC, $400.

DC SUPPRESSOR

MX-7777B SUPPRESSOR protects vehicle radios VRC-12, VRC-53/64 & GRC-106 from damage by voltage transients. Input 28 VDC; output < 36 VDC. Has 50 amp circuit breakers for Overload & Short; diode overheat protection & manual (BATTLE) override. 5.3x7.3x6.8, 7#. USED, $16. UNUSED, $27.50
INSTALLATION KIT for MX-7777, mount brackets and hardware. #SC-D-446056, unused, $12.00
PLUGS (2) for MX7777; #29935-2P, used, $4 ea

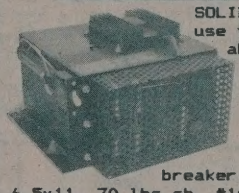
SOLA REGULATORS

SOLA HARMONIC NEUTRALIZED REGULATORS; hard-wire type, used: #24559, input 95-130 or 190-260 VAC 60 Hz; output 118 VAC 120 watts. 4.5x8.3x3, 18 lbs sh. $40.00

SOLA ISOLATION TRANSFORMER, 190-260 VAC input; output 118 VAC 50 or 60 Hz (depending upon terminal hook-up) @ approx 1500 watts. 8.3x15x8, 60 lbs sh. #TF801, used, $150.00

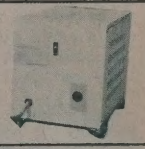
STATIC NEUTRALIZER POWER SUPPLY, high voltage 5 KV output from 120 VAC 50/60 Hz 20 VA input. 4.3x3.1 x2.6, 4# #S-H-95078, NEW, $12.95

400 WATT REGULATOR



SOLID-STATE LINE REGULATOR, use to protect your valuable equipment from line variances and spikes. Input 96-132 VAC 50-60 Hz; output 115 VAC +5% 0.75 to 3.5 amps. Harmonic distortion 12% total max; circuit breaker. MIL-spec quality; 11x 6.5x11, 70 lbs sh. #102-5675, unused, $49.50

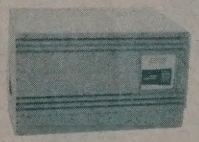
3-PHASE ISOLATION TRANSFORMER for large computers. Pri 220 VAC 3 Ø; Sec 200 VAC 3 Ø 26 amps 50/60 Hz. Has casters, 25 ft power cable & 220 V outlet. 18.5x15x21.5, 250 lbs sh. Musashi #SSB-J0064-6, NEW $150.



275 AMP RECTIFIER

POWER HEATSINK ASSEMBLY with two 1N4045 stud mount diodes in common-anode (reversing) configuration. Each diode rated 100 PIV 275 amps; hole for third. Heatsink 6.3x9x6; 10 lbs. #HS100V-275CA, $40. #HS100V-275CC, above, but common-cathode, $45.00

WANG AC CONDITIONER



WANG POWER CONDITIONERS made by Deltron; superior electronic line voltage regulators with full magnetic isolation protects computer and other voltage-sensitive equipment from damage and information loss caused by line surges or "sags". Provides "clean" 120 VAC 60 Hz output from inputs of 90 to 135 VAC 60 Hz. Input distortion reduced by 1%. Low input shutdown @ 50% of nominal. OVP shutdown @ 12% above max output. 7.8x13x10.4; NEW:
#SC-50-PC. 500 VA output with four 3-conductor AC outlets; 36 lbs sh, ~~$250.~~ $185.
#SC-100A-PC, 1000 VA output with one large L5-20R receptacle; 45 lbs sh, ~~$325.~~ $235.

COMPUTOR REGULATORS

WANG LINE REGULATORS, designed for 120 VAC constant output for computers from 95-130 VAC 60 Hz inputs. Each has two 3-conductor outlets, On-Off switch, and line cord. Unused:
#725-2740, 120 V 500 VA output rating; 7.8x8.5x16, 40 lbs sh. $195.00

CHOKES

8 Hy 110 MA 250 ohm 2 KV pk 3.5x.3x2, 2#. #L3/SG15, $4.

11 HY 75 MA 400 ohm; 1.8x 2.6x1.8, 2#. #200137, $4.00

22 HY 100 MA 300 ohm; 3x3 x4.3, 5#. #L22-100, $5.50

20 Hy 80 ma 240 ohm; 3x4.3 x3, 4#. #L101/382, used $5

6 HY 250 MA 90 ohms; 4x4.4 x3, 7 lbs. #L123/610E, $5.

10 HY 55 MA 400 ohms; 1.9x 3.3x1.6, 2#. #L1/AM20, $3.50

7 HY 350 MA, 4x4.8x3.8, 8 lbs sh. #TF-5013, $6.50

4 HY 550 MA 40 ohms $4.95
3½x4½x4; 7 lb Paeco 911-39

5 Hy 500 ma 30 ohm, 536 WV 4.3x5.3x4.5, 15#. #8600, $5

4 HY 400 ma 70 ohms 450 Vrms; 3½x3½x3, 6 lbs. #SMD-422-745 $4.

4 HY 300 ma 70 ohms 1000 V-rms; 3½x3½x3 #SMD422768 $4.

10 HY 150 MA 150 ohm 500 WV 3.3x4x3.4, 5#. #L3/AM20, $5.

2 HY 700 ma 23 ohms 1K WV; 5½x3x3½, 9 lbs. L201/141 $4

6 HY 300 MA 40 ohms 1070 WV 3.4x4x3, 8#. #L567/T368, $6.

5 HY 50 MA 195 ohms; 2.5x 2.3x1.9, 2#. #550/TRC1, $3.

10 HY 200 MA 160 ohms; 3.6x 4x3.3, 7#. #L10H200, $5.95

6 HY 150 MA 125 ohms 535 WV; 2.8x4.4x1.8, 3#. #L6H150 $4

100 uHy 25 amp torroid 1.6x 2" dia. 2#. #L1/MA-PS, $4.

3 HY 350 MA 30 2K PV; 3¼x 4½x2¼, 6 lb. L-225/PP115 $3

3.5 HY 200 ma 90 V 1 KVRMS 3½x4½x3, 4 lbs. #7629828 $3

10 HY 125 MA 150 ohms; 2.9x 4x2.7, 3#. #TF5001, $4.50

TRIAD C-11X CHOKE, 6 Hy 110 ma 160 ohms; open frame 2.3x 2.6x1.8, 2#. NEW, $4.95

TEK TRANSFORMER

LV TRANSFORMERS from Tektronix 500-Series scopes; 16 lbs. Used, $20 each:
#120-037, p/o 535/545
#120-120, p/o 535A/545A
#120-0141, p/o 585A
#120-0344, p/o 545B

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High voltage supplies from above Tek 500-Series with 5642 tubes. Specify scope model; 4 lbs. Used, $35 ea.

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HV SUPPLY from AN/USM-117 scope; 3 lbs sh. Used, $35.

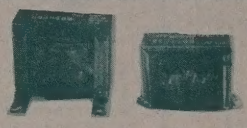
Pri: 60 V 60 Hz. Sec: 2130 V 16 ma, 112 V 4 ma. 4.8x6 x4.3, 10#. #HA131P, $8.95

HV OSCILLATOR TRANSFORMER f/HP-160 & USM-105A scopes; used with 50 Khz 6AQ5 oscillator. Two HV windings approx 5000 V each. 2½x2⅜ x2¼, 2 lb. #3862 NEW $35.

OPEN-FRAME CHOKES without mounting flanges; used:
#L8H-560, 8 HY 560 MA; 4.5x 5.5x4.3, 15#. $8.95
#L6H-345, 6 HY 345 MA; 4.5x 5.5x3.8, 13 lbs sh. $5.00
#L8H-250, 8 HY 250 MA; 3.5x 4.3x3, 9 lbs sh. $4.50

0.03 Hy 1.4 amps 0.35 ohm; 2.3x3x2, 3#. #L1/PP869, $4.

0.4 HY 1.35 amps DC 1850 WV 4.8x4x3.8, 10#. #52C2716 $8



#6221188, 4 mHY 8.7 amps; 0.083 ohms DC resistance. 4x2⅜x2⅜, 4 lbs. $4.95

#WE330A, 60 mHY 7.5 amps; 0.74 ohms DC resistance. 4½x4½x4, 12 lbs. $7.95

#WE1059A, 6 mHY 15 A; 0.11 ohms DC res. Sealed-type. 5x4¼x4¼, 15 lbs. $8.95

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#WE1060A, 2 mHY 15 A; 0.14 ohms DC res. Sealed-type. 3⅝x4¼x3½, 8 lbs. $5.95

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#WE241C, 2.5 mHY 25 A; .25 ohms DC res. Sealed-type. 3⅝x4¼x3, 7 lbs. $7.95

SWINGING CHOKE 2.5/12.5 HY 200/20 MA 2.5x3x1.9, 3# #L601/R390A, Used, $5.95

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6 HY 150 MA 100 ohms 2 KV test; 2.4x2.9 x2, 3 lbs. #L603/R390A. Used, $5.50

8 HY 300 MA 160 ohm 2260 WV; 3x3.5x3.3 6#. #515322-1 Used, $6.00

6.7 Hy 215 MA 2100 V test; 4x6.5x3.3, 8# #UX6911, $5.

32 HY 40 MA 540 ohm; 2.6x 3.1x2.5, 2#. #L1/RA133, $5.

3.5 HY 500 MA 100 V. 60 cyc 30 ohms 715wv 4x5½x3½; 10 lbs TF1A04KA/A8649 $2.95

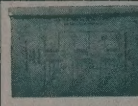
PEERLESS-ALTEC LANSING 10 HY 75 MA 3x4x2.9, 5# sh. #13578-S, Unused, $6.00

SWINGING CHOKE, 0.05 HY 3 AMPS to 1 HY 60 MA, 85 ohms 1500 V test: 5.1x5.5 x5.1. 20#. Used: UTC #5817, $20

2 HY 100 MA 100 ohms 2 KV-T 1.8x2x1.5, 2#. #T56379 $3.50

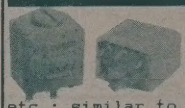
10 HY 75 ma 268 ohms; 4x2⅝ x2¼; 3 lbs. #CS13886, $3.

DUAL CHOKE
11 HY 100 MA
200 OHMS
4x4x5½ WT 8
#3C557F-1
$4.00



3 PHASE DELTA
60 hz 400 wv nominal 208 v 3phase
1940 wv
1370 v rms 52 ma rms per leg
5x5½x4¼; 18 lb
686-6836 $25

UTC VARIDUCTORS



VARIABLE INDUCTORS for tuned circuits, equalizers etc.; similar to TVC-Series tapped @ 50% & 30%. Ratings approx; 1.1x0.8x1.3. Unused:
#CL-680, 3-6 Hy 9 ma, $5.95
#CL-737, 1.2-3 Hy 12 ma $5.

TF-238 400 Hz LINE REGULATOR, input 100-130 VAC 400 Hz; output 115 VAC -5 V 400 Hz 7.5 KV. Uses 13 amp variable transformer and buck-boost transformer; p/o TPS-1G system. 10¼x14⅝ x9⅝; 55 lbs sh. Unused $75.

HI-CURRENT

HI-CURRENT CHOKES from large transmitters: 8x7.5x6 + 2.3"H insulators. Sealed, 55 lbs sh:
#L800/TMC, 2 Hy 1.6 amps, $25.00
#L801/TMC, 5 Hy 1.0 amps, $24.00

MULTI-VOLTAGE ISOLATION TRANS. PRI:73/88/95/105/115/125/190/210/230/250. 50/60 cy SEC:17.6/35.2/189 193/196/200/203 @ 1.6 AMP. 9½x4½x7½; 40 LBS. 2Z9619-6 $14.95

COLLINS AUDIO CHOKE 0.0665 HY 3.3 DC resist. Tapped 32, 36-42-48-55 mH. 3.5x2.8x3.5, 4#. #678-1192, $10.

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HI-CURRENT CHOKE 6.2 mH 50 amps 0.3 ohms; open frame. 6x6x5.5, 34 lbs sh. #622068, used, $22.

DUAL CHOKE, 2.5 HY 500 ma 30 ohm 240 Vrms 120 Hz & 2.5 Hy 400 ma 35 ohm, 25 Vrms 120 Hz. 7x3.3 x3.3, 15 lbs sh. #6452, used $6.

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DUAL CHOKE removed from PP-308/GRR-5; 0.05 H 500 ma 1.36 ohm; 3.3x4x2.8, 4#. #L106/PP308, $7.50

C-161 LOADING COIL, used with switchboards as 1:1 ring-thru transformer; CT line-side winding. Popular in old phone patch projects; 3x5x 2.6, 4 lbs sh. Used, $10.00

C-114 LOADING COIL, adds 88 mH inductance to field phone wire increasing effective range 125+%. Watertight case; 4 lbs. $8.95

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D162194G TELEPHONE REPEATING COIL, 2-windings 400 & 9 ohms; 3.1x5x1.7, 2 lbs sh. Unused $4.50

SWINGING CHOKE, 10/25 HY 125/15 ma. 4½x3½x4½, 6 lbs. #TF1RX04LB/FGC-29, $5.95

TUNED REACTOR, 210 mH 1 amp choke in circuit with 8 & 4 mf capacitors; 150 ohms DC. 50 or 60 Hz; 4.5x6x4.5, 10 lbs. #USG-3416, unused, $8.

VARIABLE TRANSFORMERS

120 VAC 60 Hz in; 0-130 VAC output encased style. Used-checked: 2.4 AMP $18.

LARGE VARIABLE TRANSFORMERS used-checked without knobs:
120/240 VAC input, output 0-240 V 28 A; 80 lbs, $220.
240 V input only, output 0-240 V 28 A; 80 lbs, $190.

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QUANTITIES LIMITED! Stock changes so call or write!

KNOBS FOR VARIACS

2-3/8" dia. fits 3/8" shft. W/ptr. Luxitrol, $2.50

4" dia WHEEL with pointer for 11/16" dia shaft. #KNOB-35 used $3.00

DIAL PLATES, unused:
4" dia 0-100 scale; 7/8" dia ctr hole. Takes three screws; #BP8087, $1.00 ea

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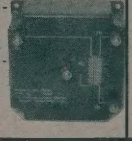
10" dia 0-100 scale; 1.5" dia ctr hole. Takes four screws; #BP653, $2.50 ea

POWERSTAT variable transformer, 120 VAC 380/1000 Hz input; output 0-120 VAC 13 amps. 7x6.2x3.3, 9 lbs sh. #GA-50650L, used, $18.95

PARALLELING CHOKE by Superior Electric; both windings 20 uH. Used with 7.2 KVA varxformers. 6x6x2, 4 lbs. #T5587, Used, $25.00



BELDEN TV WIRE

BELDEN "CITY COLOR" SHIELDED TWIN-LEAD TV WIRE; two 26 AWG 7x34 stranded copper-covered steel conductors with Beldfoil shield. Recommended for VHF-UHF-FM use in high interference metro areas.
75 ft (3#), $8. 100 ft (4#), $10.00

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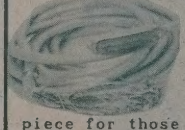

MULTI-LINE TELEPHONE CABLES, 18 feet 50-conductor PVC-jacketed cable with Cinch 77-72500 blue connector on one end and terminal lugs on the other; a nice ready-made piece for those complex wiring jobs.
3 lbs sh: #50-TC-18, used, $5.95

WIRE SALE

Vinyl-covered hook-up wire, all stranded copper; no color choice. May not have continuous lengths over 1000 ft.

#12	$12/100'	$99/1000'	
#14	$6.50/100'	$42/1000'	$185/5000'
#16	$5.00/100'	$30/1000'	$120/5000'
#22 shielded	$3.50/100'	$22/1K'	$75/5K'
#26 solid	$6/500'	$9/1000'	$30/5000'

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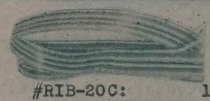
AIRCRAFT-TYPE WIRE, nylon insulation w/braid covering; silver-coated wire and shield:
#22 stranded, $4.50/100' 10x100'/$32.

* *

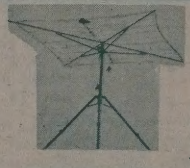
COMPUTER CONTROL CABLE in black PVC jacket, #24 wire in color-coded vinyl; LV-low voltage

		Cond	10'	100'	500'	1000'
CC24-14	14		.32	.28	.24	.18

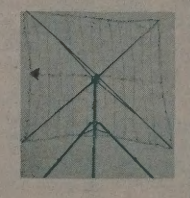


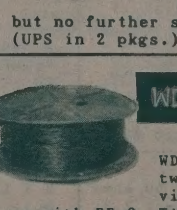
RIBBON CABLE for computer wiring or similar jobs; 20-conductor #22 stranded wire with ten color codes.

#RIB-20C:	10'	100'	500'	1000'
Price per foot:	$.50	$.40	$.30	$.20



LOG-PERIODIC





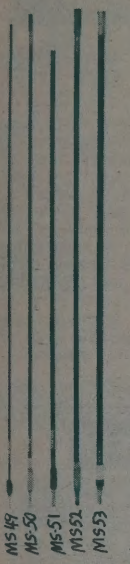
AS-2236/GRC ANTENNA, lightweight and minimal guying makes this 30 to 70 MHz low-power log-periodic excellent for field day! Mounts on 35 foot mast and unfolds to 10 ft square. Includes antenna, seven 44.5"Lx2.75" dia aluminum mast sections, 44.5"L x 2.75" dia fiberglas section, pivot for horizontal or vertical polarization, folding tripod (10.5 ft square) with foot pads, six stakes, three screw anchors, guys, ropes, and hammer. With set-up info but no further specifications. 100 lbs sh (UPS in 2 pkgs.) Used, $125.00

WD-1 FIELD WIRE

WD-1/TT FIELD TELEPHONE WIRE, two-conductor twisted-pair vinyl-covered steel wire for use with EE-8, TA-43, TA-312 field phones. Wire is "used" and has "splices"; reel not included: $3 /100'; $20 /1K ft; $80 /5K ft
RL-159 SPOOL for 1 mile WD-1; 11#. Used $12.

ANTENNAS

HY-GAIN ANTENNAS



HY-GAIN MOBILE-COM ANTENNAS, new: 760-SERIES antennas include 52" whip, 2.5"H spring base, 18' RG-58 coax cable, PL-259 connector, & UG-175 reducer; 5 lbs NEW, $9.95 ea: #761 (30-33 MHz) #761 (30-33 MHz) #767 (33-36 MHz)

280-SERIES mobile coil antenna w/ 52" lg whip & 2" dia loading coil:

#281 15 meters, 2-3/4"H coil $9.95

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3-FOOT MAST SECTIONS (left), WW-2 & Korean War-vintage of painted copper-coated steel; sequentially screw into each other with 3/16" dia MS-49 top section being the smallest. Self-supports to 15 feet; MS-53 can fit into another MS-53. 1 lb sh. MS-49-50- -52-53, used, $2. ea MS-49-50-52-53, unused, $3.00 ea

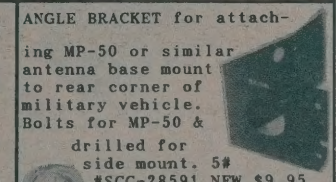
MS-51 MAST SECTION, "poor" used, $2.50 SAUCER CERAMIC BASE fits MS-53, 5" dia x 1.5"H + 3/4"H terminal. #INS/TRC75, $9.

FIXED STATION BASE for AT-271/PRC antenna; black phenolic 3½" dia base w/silver-plated receptacle; BNC connection, and load coil 2 lbs. #CAN-100-7555 $4.

MP-65 MAST BASE similar to AB-15 below except 4"Lx3" dia insulator; o/a 17"L; 4 lbs. $12.

UG-558 BASE for MS-116-117-118; mounts to SC-D-189023. 16"Hx6"dia; SO-239 conn. Used, $10.

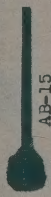
MOUNTINGS f/MX-6707 used: #SC-D-189023 f/base, $10. #SC-D-446058 corner, $10. EXTENDER f/SCD-446058 $6.



ANGLE BRACKET for attaching MP-50 or similar antenna base mount to rear corner of military vehicle. Bolts for MP-50 & drilled for side mount. 5# #SCC-28591 NEW $9.95

AS-1321/PRC-47 LONG-WIRE ANTENNA, 45 ft vinyl-covered with insulators at 15' and 25'; clips at insulators adjust length. 4 lbs sh. Used, $12.

AS-1320/PRC-47 ANTENNA 8-section 15 ft whip w/ MT-2786 legs that permits use as HF groundplane. Canvas bags 12 lbs. Used, $25. CERAMIC INSULATOR, threads to AS-1320 base; 3" dia, 1#. #INS-PRC47, $4.00



AB-15 MAST BASE for MS-116-117-118 or AB-21-22-23-24 mast sections; spring action with 3.3"L x3" dia ceramic insulator and bottom terminal. Requires 2" dia hole for mounting. O/a 15"L, 3#. Used, $6.95

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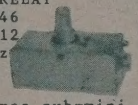
MS-116-117-118 MAST SECTIONS, each 39.3"L. MS-116 is stackable bottom section, MS-117 is middle and MS-118 is tapered top; 1 lb sh each. Used, $3.50 each



ANTENNA RELAY for RT-246 -524/VRC12 30-76 MHz FM 35 W radios. BNC & three sub-mini connections. Unused, but may be "rejects." #5985-892-3200, $15.

A-62 PHANTOM ANTENNA, electrical network used in place of antenna to tune BC-604 20-28 MHz xmitter. Adjust INCREASE and MAX-MIN; ANT & GND terminals. 7"Hx4" dia, 4#. Used, $19.95

TM-218 TERMINAL, p/o BC-659, unused, $8 W-128 wire, 2 ft, $2.50; 6 feet, $6.00

AS-3439 225-400 MHz ANTENNA, 200 W forward using 40 W load; 30" dia "flying saucer." Hybrid quadrature; N & TNC conn. Used, $75.

AN-22A LONG-WIRE ANTENNA, 20 ft W-29 wire with snap hooks; p/o SCR-177/188 (BC-191). 2#. $4.

ANTENNA WIRE SOLID COPPER #10 VINLY COVERED, 250FT #4884C $25

AS-3439

IN-106 ANTENNA BASE, clamps to SCR-284 WW-2 radio; accepts MS-56 mast; top and bottom terminals. Metal with ceramic insulator. 14"Lx3.5" dia, 5 lbs sh. $9. IN-106A, as above, except plastic, $8.

AT-96/APN-12 VHF STUB ANTENNA with N connection 14" H, 5 lbs. Used, $15.

AB-86/GRA MAST GROUP, 16/AB-85 36"Lx1.6"d masts plus 4 ea MX381-382-3 guys, MX-384-857, AB154, HM-1, MXI116. 85#. Unused $145

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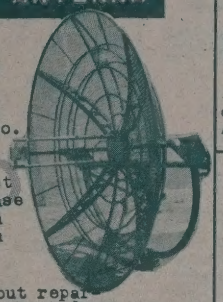
VIS-O-GLOW NEON LIGHTNING ARRESTORS, #4392, $2.50 ea

8 FOOT DISH ANTENNA



AS-554/TRC 8' dia ANTENNA with aluminum mesh paraboloid surface. Designed for 1700-2400 Mhz with 30 db gain; 4.5 Mhz bandwidth. 20 db major to minor lobe ratio. Rugged military construction; looks like one can add onto and extend the cast aluminum supports to increase dish diameter. 36" feedhorn focal length; 16" fall from edge to center. Shipped in sections with feedhorn and yoke. Mesh may have minor but repairable breaks. 425 lbs sh wt. Used ~~$325.~~ $235.00

AS-1729 ANTENNA SET

AS-1729/VRC ANTENNA SET, consists of MX-6707 impedance matching antenna base and AS-1730 and AT-1095 fiberglass mast sections; designed for RT-246-524/VRC transceivers and vehicular versions of PRC-25-77 radio sets. MX-6707 has automatic or manually tunable frequency ranges 30-33, 33-37, 37-42, 42-47.5, 47.5-53, 53-56, 56-60, 60-65, 65-70.5, and 70.5-76 MHz FM; also BNC connection for RF. Bottom mast section AS-1730 is 52.5"L, upper AT-1095, 64"L; MX-6707 14.3x5.5" dia, 20#. Used, $55. MANUAL f/AS-1729, repro, $8. MX-6707 MATCHING UNIT only, used, $37.50 AS-1730 or AT-1095 only, used, $12.50 each

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TIE-DOWN KIT for AS-1729/VRC including tie-down rope and plastic cap for AT-1095, $8.

AB-21-22-23-24 MAST SECTIONS, 27"L (AB-21 bottom), 1 lb each. Used, $2.50 ea

Canadian MARK II #19 UHF ROD ANTENNA with ZA-1764 base; o/a 27.5"L. Unused, $10.

AT-272A RIBBON ANTENNA & AT-272 FLEX-BASE SET f/PRC-8-9-10; 2 lbs. Used, $8

AT-1096/VRC MAST SECTION, used with MX-2799 matching unit and AT-1095 mast; used, $15.

AT-271/PRC ANTENNA, 8.5 ft 7-section whip for PRC-8-9-10/25/77. Used, $12.00

AT-892/PRC-25 GOOSENECK BASE only, used, $6.

M-422 ADAPTER for using MS-116/AB-23 masts with PRC & BC-1000 as long ant. $2.50

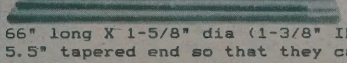
PRC-90 WHIP ANTENNA, p/o handheld UHF rescue transmitter @ 282.8 MHz voice, 243 MHz beacon. 12"L extends to 24"L; 6"L rubber flex area above base. 3/8" dia mtg threads. #5820-371-6806, unused $9.95

ANTENNA SPRING MOUNT, p/o MX-6707 of AS-1729 above; S-MC-54-2057, 4 lbs. Used, $15.

PRC-74 LONG-WIRE

MK-911/PRC-74 LONG-WIRE ANTENNA SET, greatly extends the range of RT-794/PRC-74, a 2-18 MHz 15 W backpack transceiver. Consist of two 234 ft antenna wire & reels and two 100 ft support cords w/weight, and dipole fixture w/terminals and wire lead. 10 lbs sh. Used, $32.50 DIPOLE FIXTURE only, #DP-MK-911, $7.50

TUBULAR ALUMINUM



TUBULAR ALUMINUM POLES, 66" long X 1-5/8" dia (1-3/8" ID) poles have 5.5" tapered end so that they can "stack" for additional height. These sturdy poles have other potential uses such as portable flag poles, tent poles, volleyball net poles etc! Originally military antenna poles (see page 15); 4 lbs sh. MS-44, used, $8.00 ea

AB-154/U SWIVEL BASE, sticks into ground and pivots masts to vertical; 3#. Used, $5.

MX-381/GRA-4 GUY ROPE, 40' long; 3/16" nylon 800# test; w/hooks & insulators, used, $4.

MX-382, 31', $3.00; MX-383, 50', $5.00

MX-378 GUY RING f/ masts to hook guys, $1 ea

GP-101 GUY STAKES, 15.8"L; alum., 2#. $3 ea.

AB-719 SPRING BASE

AB-719/VRC SPRING ANTENNA BASE, mounts onto MX-2799/VRC matching unit but will "bolt" to any flat surface. Has BNC RF connection; mates to AT-1096/VRC 52" mast section which screws into AT-1095 64" top mast. Mast sections not included. 4.8x9.3x3, 4 lbs. Used, $7.95 AT-1096 MAST, used $15. AT-1095, $12.50

IMPEDANCE MATCH

CU-459/AR IMPEDANCE MATCH NETWORK, black plastic bullet-shaped unit designed to mount to aircraft wing and hold two AT-624 antenna elements (not available) 50 ohm BNC connection on bottom. P/o AN/ARA-31 24-49 FM MHz homing set; 4.3x 3.3, 2#. Unused, $5.95

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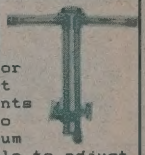
KY-149/AR KEYER, couples homing antenna to radio; requires 28 VDC. 2.3x7.7x4.9; 3 lbs sh. Unused, $14.95

AT-413 DIPOLE



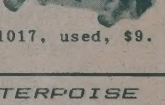
AT-413/TRC DIPOLE ANTENNA for 225-400 MHz, originally part of large array. T-top elements extendable 3" on each end to adjust reception; 20" maximum T-width. Mount flange movable to adjust height. Has type C connection on bottom. O/a 15.5"H, 6 lbs sh. Used, $15.00

AB-35 MAST SECTIONS

AB-35/TRC ALUMINUM POLES, 33" Lg X 1.5" dia fit to form 30 ft mast; p/o RC-292. 3 lbs sh. Used, $6 ea; 12/$60.

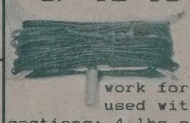
GUY RING PLATE for AB-35, $1.25 ea

ANTENNA RELAY



SPDT COAXIAL RELAY, 6 VDC 20 ohm; contacts good for about 100 watts. Two BNC connections & one solder terminal. Motorola #280C1017, used, $9.

CP-12-13 COUNTERPOISE



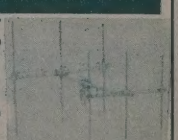
CP-12-13 COUNTERPOISE heavy rubber-covered wire spreads to form 15 ft dia radial network for ground plane antenna; used with MS-116-117-118 mast sections; 4 lbs sh. Used, $12.00

GY-12/42 GUY ROPE SET, 3x20' lengths, $7

M378 ROPE, 80', $6. M379, 10', $1.50

BUDWIG HYE-QUE antenna insulators and strain connector for long-wire installations; full legal power capacity and weather-tight polymar construction. NEW: #HQ-CONN strain assembly with PL-259 connection for lead-in wire drop, $6.50 #HQ-INS-PR, insulator pair, $1.50 /pr

40-100 MHZ YAGI ARRAY



AS-756/TRC TWO 3-ELEMENT YAGI ARRAY for 40 to 100 MHz range, 5 DB gain; vertical or horizontal polarization. Consists of array spacer bar, two antenna booms & 12 each long, short, and subassembly antenna elememts. Lengths adjust according to frequency: spacer 58"-112", booms 72", elements 40"-58". 95 lbs sh. (UPS in 4 pkgs); AS-756, $79.50 #YA-756, one 3-element array only, $36.

NEW COAXIAL CABLE

NEW MANUFACTURE AND BRANDED WITH STANDARD TYPE NUMBERS TO MIL-R-17A SPECIFICATIONS.

Prices listed for lengths indicated. In between lengths use the higher price.

LESS THAN 100 FEET ADD 10% TO HIGHEST PRICE!					
COAX	Ohms	100'	500'	1000'	5000'
RG-8/U	52	$.27	.25	.24	.23
RG-58/U	53.5	.15	.14	.13	.13

ESSEX 21-597 SUB-MINAX COAX, thin 0.15" outer diameter (0.1" O.D. core) for making RF jumpers etc. 75 ohm impedance; polyethylene insulation, 93% shield. Similar to Belden 8218; 15 lbs/1K'. Unused, $12/100'; $100/1K'

NEW COAXIAL CONNECTORS

SO-239 $1.10 ea 10 for $10.00

PL-259 $1.10 ea 10 for $10.00

PL-258 JUNCTION $1.75 ea 10 for $16.00

TERMINAL POST nylon cap spring -loaded: 1.8"H. NEW: #BP-NC, $1.50

#2H-SO-239 2-hole mt $.35

#SH-SO239 barrel mt. $1.10

UG-175, adapts PL-259 to RG-58 coax, $.35

SO-239 $1.

UG-176, f/UG-59, $.35

COAX CONNECTORS

CONNECTORS & ADAPTERS: (m) male, (f) female, (bulk) bulkhead, (rec) receptacle, (r/a) right angle; (U) used, (Un) unused.

TYPE BNC: UG-88 m (RG-58) U $.75 ea

UG-260 m (RG-59) U $.60 UG-290 f panel U $1.

-274 "T" 2-f to m, U $4. UG-909 bulk U $1.

-273 to UHF, Un $2.00 -306 R/A adapter

-282 to post $1.50 used, $1.75

UG-913 r/a U $1.25

TYPE C: UG-573/1032 m (RG-8), U $2.00 ea

UG-626 m (RG-21) U $2. UG-710 m R/A Un $3.

UG-643 f:f adapter Un $3 -943 (RG-21) U $3.

TYPE N: UG-21 m (RG-8), NEW, $4.00 ea

UG-27 m/f R/A U $2.00

-1052 f bulkhead for RG-58, U $1.50

UG-593 f bulkhead f/RG-59-62 U $1.50

TYPE TNC: Gremar #6006 m Un $2.50; U $1.50

#6177 m R/A Un $3. #6098 to N f bulk U $3.

BALANCED ANTENNA INPUT for R-390A receiver: STAR 7162 (RG-58) U $5.

UG-100 m U $1.50 DA-113 dummy U $5.00

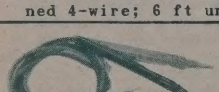
-109 f/UG-100 $1.50

-920 R/A HN (m) to HN (f), unused, $3.00

M-359 elbow: PL-259 to SO-239 U used, $1.25

COAX CABLES from mil-equipment; used-unused:
CG-530 CABLE, 54" RG-62 w/2 UG-260 BNC, $3.
RG-213-1, 16" RG-213 w/two R/A N conn. $6.00
RG-214-3, 3' RG-214 w/90 male N conn. $8.00
RG-213-12, 12' R-213 w/N connectors, $8.50
31-224 BNC TWIN-AX, 1-conn on 50" cable, $3.

SHORT "N" CABLE, 8" long w/two UG-21, $4.50
CX-3094 MIC CABLE with Cannon XLR-3 mic plug and 3106A-1S-7P plug; 25 ft. Used, $7.50
MIC COIL CORD w/Cannon XLR-4 mic plug & tinned 4-wire; 6 ft un-extended. #MCC-XLR4, $8



TEST LEADS

INSTRUMENT TEST LEADS for meters, etc. One end has 5.2"L plastic prod; other other end tinned wire. Military-quality with heavy insulation; o/a 36" length. One red and one black lead per set; 1 lb. #TS-LRB, NEW, $2.50/set

ALLIGATOR LEADS

ALLIGATOR CLIP TEST LEAD KIT, 45" long rubber-insulated lead has 4.8"L plastic prod which fits into plastic insulated alligator "Safe-T-Clip". Kit includes one each red and black leads, one each red and black clips. #MX-19090, unused, $3.50

BUNKER RAMO AMPHENOL

Sale!

RF and AUDIO CONNECTORS, all new package; Male (M), Female (F)

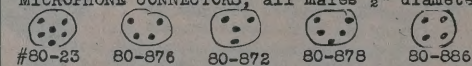
BNC quick assembly:
#31-4701 50 (F) $1.
#31-4702 70 (M) $1.25; -4703 70 (F) $1.25

UHF-types:
#83-5SPA, press male to (F) adapter, $1.25
83-58FCP, short barrel PL-259 f/RG-58, $.50
83-58FCJ UHF female for RG-58 coax, $1.25

#83-23 UHF m-f lightning arrestor, $2.50

82-831 push-on chassis BNC (f), NEW, $.45
#81-103 mini plug or #81-104 mini jack, $.50

MICROPHONE CONNECTORS, all males ½" diameter



#80-23 press fit 60¢

80-876 lock ring $1

80-872 extended pins 60¢

80-878 lock ring $1

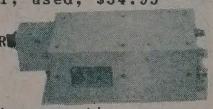
80-886 threaded barrel $1

PDR-27 RADIAC SET

IM-85/PDR-27F PORTABLE RADIAC METER using Geiger-Mueller tube in DT-53 detector probe. Meter measures beta and gamma radiation in milli-Roentgens per hour; scales 0.5, 5, 50 & 500 MR/hr. BNC connection for headset monitoring. Requires 135, 22.5 and 1.5 VDC originally supplied by batteries BA-314, -261 and RG-4B (not supplied.) 8x5.8x10.6, 13 lbs sh. Used, $39.50
MANUALS for PDR-27, specify model #, $8.50
BA-314 BATTERY 67 VDC, not tested, 2/$2.50
BA-413 BATTERY for PDR-27C, "weak", 2/$2.00
BA-416 BATTERY for " ", 135 V; 4#. $5.95
BS-2 GM TUBE, $8. Z-101 AMPLIFIER, $10.00
CY-1296 CASE f/PDR-27F, 12#. $7 w/set purch.
H-43/PDR HEADSET for PDR-27, $10 w/set purch
CARRYING STRAPS for radiacs, used, $5.00 ea

740 - 1010 MHZ SOURCE

SOLID-STATE 740-1010 MHZ FREQUENCY SOURCE, tuned by 49-turn mechanical shaft; has SMA Output and Sample Output connections. Rugged aluminum construction; requires 20 VDC. 2.5x15 x1.5, 4 lbs sh. #FS-74101, used, $34.95



OPTIMAX 90-110 MHZ VOLTAGE-CONTROLLED OSCILLATOR MODULE with proision for external AM modulation. SMA Output and BNC Modulation and Sample Output connections; requires 20 VDC. Aluminum encased; 2.5x8.5 x3.5, 4 lbs sh. #OSA-1510A, used, $35.00

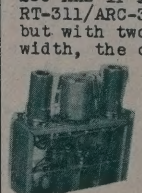
CODE SIGNALING LAMP

CANADIAN MORSE CODE SIGNAL LIGHT, mirrored reflector tilts by trigger in handgrip; site-tube on top. Usable also as spot light. Includes 4" clear lens, 10' cable, and carrying case. Light bulb not available (change socket for common bulb). 9x 6.3x8, 15 lbs. #CAN-5A, used $10. Extra 4" LENS, red, green or clear, $1.50; 4/$5.

COLLINS 250 KHZ I.F.

250 Khz IF ASSEMBLY from Collins 618S-1 transceiver. Has 250 Khz mechanical filter with 6.7 Khz width and tubes 3/5749 and 2/5726. 4¾x6x3¼, 3 lbs sh wt. #IF250-67/618S1, used, $12.95

250 Khz IF ASSEMBLY from RT-311/ARC-38 transceiver. Similar to above but with two mechanical filters--one 2 Khz width, the other 8.5 Khz. #IF250/ARC38 $24.95

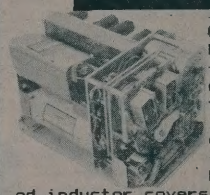


250 KHZ CRYSTAL OSCILLATOR from Collins 618S1. Has 250 Khz BFO oscillator coil, crystal oven with CR-46 250 Khz crystal, and 2/5749 tubes. 4⅜x6x1⅛, 2 lbs sh. #OSC-250/618S1, $6.95

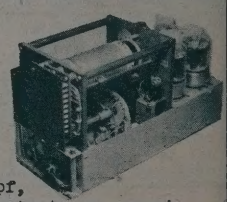
RT-671 PARTS

MODULES from RT-671/PRC-47 2-12 MHz transceiver; for replacement use or adapt to your special project. Used-not tested:
AM-3506 AUDIO AMP has mic, sidetone, vox and compressor circuits of TX; AGC & audio for Rx. Req 20 & 24 VDC. 4.3x4.3x2.8, 2#. $15.
AM-3507 AMPLIFIER MODULATOR contains LSB 500 KHz mechanical filter (F500-Z5 #526-9376) plus balanced modulator and product detector. Requires 20 VDC; 4.3x4.5x1.3, 1 lb. $35 Schematic, $1.50; Connector set, $5.00
C-4311 CONTROL OSCILLATOR, 3 lbs. $25.00
CV-1377 SIGNAL DATA TRANSLATOR with tubes 5907, 7761, 7905; 5 lbs sh. $50.00
O-1032 RF OSCILLATOR, contains 3 MHz crystal in oven; produces 500 and 100 KHz outputs. Requires 20 VDC; 4.3x4.5x1.3, 1#. $20.00

ARC-38 OSCILLATOR



O-215/ARC-38 STABILIZED MASTER OSCILLATOR ASSEMBLY from Collins-made RT-311/ARC-38, an aircraft HF transceiver. Utilizes series-fed electron-coupled oscillator, a more stable frequency variation of the Hartley-type. Step-adjusted inductor covers 14000 positions to tune oscillator frequency of 1.75 to 3.5 MHz in 125 Hz steps. Includes Collins SMO #70E-22, discriminator #147A-1, 27.5 VDC motor gear drive and tubes 3/6AK5, 6BA6, 2/6BE6. Many parts common to ARC-38A SMO assembly. 6x 6.5x10, 15 lbs sh. Used, w/schematic, $35.00



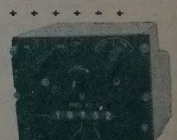
618S-1 POWER AMPLIFIER, p/o Collins 2-25 Mhz 100 watt transceiver. Has 12.3 uH roller inductor; coil 3¾x1½" dia with 27 turns #14 silver-tinned wire rotated by 115 VAC 400 Hz selsyn. Also ten Centralab 850 HV capacitors 10 pf, 50 pf, 7/100 pf, and 1000 pf. Big silver contacts on ceramic switch; uses three 6159 tubes. 11x5x6, 10 lbs

#3496/618S-1, less tubes, $28. With tubes $36.
MATING CONNECTORS, 2 required, $2.50 ea
SCHEMATIC for 618S-1 power amp, $1.50

ARC-58 MODULES

MODULES from AN/ARC-58 or TRC-75 radio sets. Each 4.8x4.5x1.5, 2 lbs sh. Used-not tested:
AM-1523 AMPLIFIER DETECTOR with four 5899 tubes; p/o R-761 Rx, $17.50
AM-1525 ELECTRONIC CONTROL AMPLIFIER, p/o T-605/T-730 xmitter, $15.00 ea
AM-1526, similar to AM-1523, $17.50 ea
AM-1733, similar to AM-1525, $15.00 ea
SCHEMATICS for any of above, $1.50 each.

AM-1528 AMPLIFIER-MIXER for R-761 with 10 tubes and slug rack, $45. Schematic, $3.
AM-1529 AMPLIFIER OSCILLATOR with Collins mechanical filter F455 Z1, $28.00
CV-465B MIXER OSCILLATOR for R-761; oscillators master 70H13A, interpolation, spectrum generator, etc. With Mechanical filters F455 Q2 and Q3. $55. Schematic, $3.00
MD-286 BALANCED MODULATOR with mechanical filters F300 Z4 and F300 Z5, etc. $30.00
SG-179/URC REFERENCE GENERATOR, $20.00

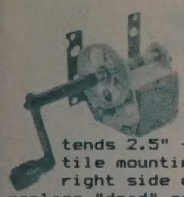


C-3141/TRC-75 CONTROL Box for T-730/TRC-75; provides On/Off, Channel and Mode selection, Gain control for Rx and Tx of TRC-75; Appears to be usable with ARC-58. Requires 27 VDC; 5.3x5.8x7.8 6 lbs. Used, $29.95
CONNECTOR for C-3141, $5 with box purchase.
SCHEMATIC f/C-3141 or C-1939/ARC-58, $2 ea.

PRC MODULES

A38 TRANSMITTER VFO module for RT-841/PRC-77 backpack Transceiver; 2.4x1.3 x1, Used-not tested, $6. Schematic, $1.50

HANDCRANK



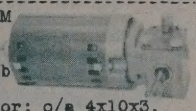
HANDCRANK MAGNETO GENERATOR removed from telephone equipment; features long crank with shaft which extends 2.5" from the generator and versatile mounting plate that allows left or right side or bottom mounting. Use to replace "dead" generator in your antique phone, or as remote signaler (ring bells/buzzers), or as "worm shocker"; 4 lbs sh. #MAG-GEN-1085, used-checked, $15.00

G-25 G-25 or equal HANDCRANK GENERATOR, similar function as above but armature in metal can; used in various military phone equipment. 4"Lx2.5" dia; 4#. Used, $16.00

DC MOTOR, operates over 10-15 VDC 100 ma 2375-2425 RPM with governor. Shaft 5/16"L x1/16" dia; o/a 2-7/8x1-1/8. #AST-GK26 $7.95

6 RPM SLO-SYN

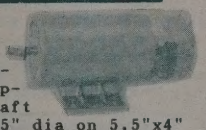
SUPERIOR ELECTRIC SLO-SYN 6 RPM SYNCHRONOUS STEPPING MOTOR, 120 VAC 60 Hz 0.5 A 50 oz-in running torque. Reversible instant start-stop. 3/8" dia stainless steel shaft; on mounting plate with capacitor. 7.3x4.5x5, 7 lbs sh. #SS50-1292BU, used, ~~$17.95~~ $13.95



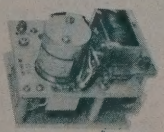
GE MINIATURE GEAR MOTOR, 328 RPM 3/8" dia right angle output shaft; other 3500 RPM 5/16" dia shaft, 5 in-lb torque. Requires 115 VAC 60 Hz and 7 mf 220 VAC capacitor; o/a 4x10x3, 8 lbs sh. GE #5KCM49NG, used, $8.95

CAPACITOR for above, non-PCB, $3.00

1/3 HP DC PM MOTOR



1/3 HP 90 VDC PM MOTOR, 1800 RPM @ 3.2 amps continous. Runs at 6 V with enough torque that it cannot be held by fingers; approx 240 RPM @ 12 VDC. Shaft 1.5"Lx0.5" dia; o/a 11"Lx5" dia on 5.5"x4" mount, 24 lbs. #SR3632-2094, unused, $75.00

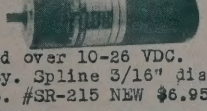


160 RPM DRIVE UNIT w/clutch has Globe C-25A512 27 VDC 15000 RPM motor and 27 VDC clutch assembly. Motor operates with good torque over 5 to 27 VDC. 160 RPM output on 3/16" dia X ½" lg shaft. O/A 3¼x4¼x3½, 3 lbs. #160DRV/618 used $8.95

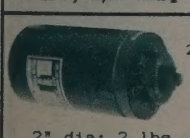
ROBOTICS MOTORS

15° STEPPER MOTOR from printer; requires +9 to +40 VDC. High speed and performance w/driver circuit info. 1x1.3" dia shaft; o/a 5.8"x1.6" dia, 2 lbs. #RBM-2-62, 2 ohm field, $12.50 #RBM-4-62, 4Ω $15. #RBM-6-62, 5.8Ω $17.00

15°4-PHASE VR STEP SERVO, 5 ohms 1.5 A/Ø; 28 VDC input pulse. ¾x¾" dia shaft; o/a 3x3½x3, 2 lbs sh. Made in Canada; removed from equipment. #20M34C1, $9.95



26 VDC REVERSIBLE MOTOR with clutch for fast stops; 12K RPM @ 26 VDC 1.2 amps. Clutch engages at 10 VDC which allows variable speed over 10-26 VDC. Rated for intermittent duty. Spline 3/16" dia shaft; o/a 4x1½" dia, 1 lb. #SR-215 NEW $6.95

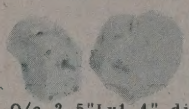


20-60 RPM motor, 28 VDC 0.5 amps reversible PM-type. Has mounting collar and tape recorder reel bobbin on shaft. Shaft 3/8"L X 3/16" dia w/o bobbin. 4"L X 2" dia; 2 lbs. #220504/UNH-6, unused, $12.95

GLOBE 85 RPM

27.5 VDC REVERSIBLE PM GEAR MOTOR, 85 RPM no load speed, 1/4 duty cycle; estimated 75 RPM 100 oz/in torque when under load. Shaft 1/2"L x 5/16" dia with ear. O/a 4x1.3z1.3, 1 lb. GLOBE #5A1231. used, $14.95

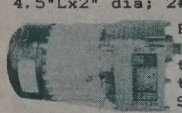
240 RPM 115 V 60 Hz GEAR MOTOR for intermittent use; starts @ 32 V approx 200 RPM. Increased voltage increases torque. Gearhead extends 2.8" beyond motor and has 1.1"Lx1/4" dia shaft. Motor 2.8x2.8x2.4 plus 5/8"Lx3/16" dia shaft for fan on rear, 3#. #MOL-2460, unused, $6.



ROWE 6-12 VDC GEAR MOTOR, 40-75 RPM; good for small scale animation projects. Draws approx 250 MA loaded. Shaft 3/8"Lx1/8" dia w/flat O/a 2.5"Lx1.4" dia, 1#. #500-6-12, NEW $4.50

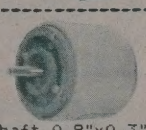
AUTOTROL MODEL 200 TIMING MOTOR, 5.4 VDC 19.9 RPM; draws about 100 MA with good torque. Shaft 3/8"Lx1/8" dia with flat; o/a 2.5"Lx1.8" dia, 1 lb. #200-266A, NEW, $4.75

DUAL-SHAFT 12 VDC PM MOTOR good for a variety of battery-powered projects! Approx 2000 RPM on 2 amp load; 550 RPM on 5 amp. Runs on 6 VDC upto 24 VDC varying RPM. Shafts 3/4"Lx1/4" dia. O/a 4.5"Lx2" dia; 2#. Johnson #HC970-S, NEW, $5.

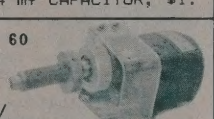


BODINE AC GEARHEAD MOTOR, 200 RPM 1/7 HP 35 in/lb torque, counter-clockwise rotation; 115 VAC 60 Hz input. Shaft 1.3"Lx5/8" dia w/3/16" square key. O/a 8.5"Lx5.6" dia; 14 lbs sh. #ECCI-35E200, used, $28.95

BARBER COLEMAN AC GEAR MOTOR, 230 VAC 60 Hz; approx 3⅓ RPM. 5/16" dia shaft X 7/8" long; Size: 2½x3½x3, 2 lbs sh. B-C #108134483 NEW, $3.95



INDUCTION MOTOR, Eastern Air Devices J71-B, 115 VAC 60 Hz 0.25 amp input for 1/40 HP 3100 RPM output. Quiet running; good replacement motor for blowers. 3.1"x3.5" dia, shaft 0.9"x0.3" dia; 3 lbs sh. External capacitor required. #548-2239, unused $4.95; 4 mf CAPACITOR, $1.



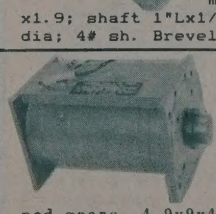
0.7 RPM GEARMOTOR, 115 VAC 60 Hz, 85 oz-in torque; 3/4"L x1/4" dia shaft; w/shaft coupler and microswitch assy. 2.3x3.2x2.3, 5.5"L w/ assy; 3#. RBC-2505, used, ~~$15.~~ $11.

MULTI-SPEED PM MOTOR

MULTI-SPEED 24 VDC PM MOTOR can be wired for 11500 RPM 0.012 HP 0.7 amp or 3000 RPM 0.035 HP 2.3 amp operation; motor starts to turn at 9 VDC and is reversible. 6"x2.3" dia with 3.5" dia collar; geared shaft 0.6x0.4" dia. 3 lbs sh. Sperry #2960031, used, ~~$12.95~~ $8.95

HIGH TORQUE DC MOTORS

SATELLITE ANTENNA POSITION MOTOR by Brevel, 36 VDC 112 RPM gearhead motor operates on lower voltages 12 VDC @ 32 RPM or 25 VDC 70 RPM with high torque. Gearhead mounting surface 3.3x3.3 x1.9; shaft 1"Lx1/4" dia. Motor 3.4"Lx1.7" dia; 4# sh. Brevel #780-953075, ~~$10.95~~ $16.



1/4 HP 12 VDC

DUNRITE 12 VDC PERMAMENT MAGNET 1/4 HP MOTOR, 5300 RPM cont-duty; 12 inch-lbs of torque. Shaft 7/8"L x 5/8" dia both ends w/pinned gears. 4.9x9x4.5. 13#. #6294355. $45.00

PHASE SHIFTER, unsymetrical resolver; rotor 1 phase 5 V 30 Hz, stator 2 phase 5 V 30 Hz. 1.4" dia X 2"L. #PS-17-E-1, used, $10.00

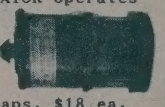
AY-231 (or equal) DIFFERENTIAL AUTOSYN, 400 Hz 11.8 V 3 phase 1:1 ratio. 1.5"Lx1.5" dia, 1 lb sh. Various mfg. Used, $3.95

15CX4 TRANSMIT 115 VAC 400 Hz, used, $4.95
23CT6 TRANSFORMER 90/1V per degree 60 Hz, $12.
23CX6 CONTROL XMITTER, 115 V 60 Hz, used $25
23TR4 RECEIVER, 115 VAC 400 Hz, used, $10.00
23W4-702 RESOLVER, 0-30 V 400 Hz, $10.00

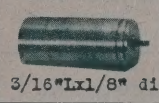
MK II SIZE 6 SELSYNS, 115 VAC 60 Hz; sold in mated pairs for rotational and position-indication uses. 7½x4½ dia, 12 lbs/pair. Used-checked, various manufacturers, $45/pair

#1HCT-MK11 CONTROL TRANSFORMER 90/55 V 60 Hz; 3.6"Lx2" dia, 2 lbs sh. Used, $20.00
#1HG-MK14 HIGH SPEED GENERATOR SYNCHRO, 115/90 V 60 Hz; 2 lbs sh. Used $25. Unused $35.

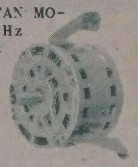
2J1H1 SELSYN DIFFERENTIAL GENERATOR operates @ 57.5/57.5 V 400 Hz or @ 26 V 60 Hz. 4.3"Lx2.3" dia, 1 lb. Used-less connector caps, $7.
2J1G1 CONTROL TRANSFORMER, useful in pairs @ 24 V 60 Hz for position indication. Used w/ caps, $18 ea.



DAYSTROM TRANSCOIL CONTROL MOTOR 115 VOLT 60 CYCLE, 1 PHASE, 2 PHASE 200 VOLT CT., 3200 RPM. SIZE: 2½x2, SHAFT SIZE: 1/16x½ WITH GEAR. REMOVED FROM NEW EQUIPMENT. PRICE: $5.00

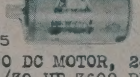


TACHOMETER GENERATOR, motor 26 V 400 Hz 2 Ø; generator 18V 400 Hz 0.3 V/1000 RPM. No load speed 10000 RPM. 2-1/8"Lx1" dia 3/16"Lx1/8" dia shaft. #TACH-SEL-MOD, $7.95

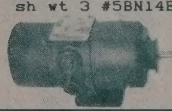


GENERAL ELECTRIC REVERSIBLE FAN MOTOR, ball-bearing 115 VAC 60 Hz 1 amp 225 RPM motor. Requires use with fan blades unless cooled by other means. Has mount flanges and 5 mf capacitor; 4.5"Lx5.5" dia plus 1.5"Lx5/8" dia hollow shaft, 11#. #5KCP39EGH210, NEW, $15.

PRINTER MOTOR ASSEMBLY, 24 VAC 60 Hz geared to about 4 RPM; can be wired for clockwise or CCW rotation. 2.8x2.5" dia motor on 3.8" sq metal plate; 2#. #MI2-M0375R, used $3.95; 3/$10.

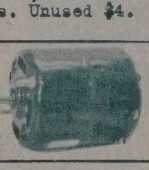


GE DC MOTOR 27.5 VDC 2.5A .044HP 7400 RPM2.5x1.75 plus .35 in long 3/16 shaft sh wt 3 #5BN14EA2-6822 $7.95

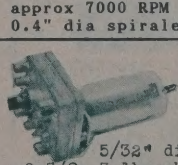


#A7155 DELCO DC MOTOR, 28 VDC 2.4 A 1/30 HP 3600 RPM. Size: 5½x2⅝" dia; shaft 1" x¼" dia, 2 lbs. Unused $4.

12 VDC MOTOR, 3000/5000 RPM clockwise rotation; 40 oz-in torque. 4"L x3" dia plus 3/4"Lx5/16" dia shft. 4 lbs. #C65010-12, $7.95



115 V AC-DC MOTOR, starts at 25 VDC, runs CW approx 7000 RPM 1/8 HP. 2.3x3x4.5 + 1.5"Lx 0.4" dia spiraled shaft; 3#. #AC-DC-H102, $3.

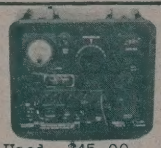


100 RPM 12 VDC GEAR MOTOR, output at 3/8" x 1/8" bar which would mate with slotted shaft (not included). Also 3400 RPM available on 5/32" dia x ⅛" lg shaft. O/A 5¼x2¾x2-3/8; 3 lbs sh. #LEE-11152S unused, $8.95

CHILD'S PHONOGRAPH TURNTABLE, 7" dia plastic platter with 115 VAC 60 Hz motor; selector switch for 33-1/3 or 45 RPM. Designed for child's record player. 2 lbs. BSR #M143AC37, NEW, ~~$14.95~~ $8.

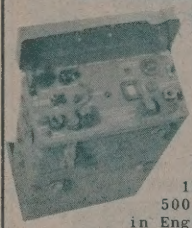
PRR-9 RECEIVER

AN/PRR-9 (XE-9) FM HELMET RECEIVER, updates earlier PRR-9 models with addition of "squelch" mode and requires just 3 VDC input from BA-4534 battery (not available). Supplied with CR-81 crystal to receive at 51 MHz FM; 455 KHz IF. Operable over 47-57 MHz depending upon crystal. Set includes AS-1998 antenna, H-302 earphone, lanyard and operator's book. 7x3.5x1.5, 6#. Unused, $85.



ID-1189/PR CHANNEL ALIGNMENT INDICATOR, designed to test AN/PRR-9 and AN/PRT-4 transmitter. Has 47-57 Mhz signal generator; checks both sets' batteries. Instructions, probes, and transit case included. 12x11½x6, 15 lbs sh. Used, $45.00

BC-1000 RADIO SET

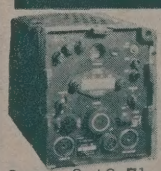


BC-1000 BACKPACK TRANSCEIVER SET, WW-2 and Korean War vintage sets obtained via NATO-surplus Operated in 40 to 48 MH FM range in forty-one 200 KHz steps. Power ou put: 300 MW RF, 200 MW AF. Built-in 43 MHz crystal calibrator. Tubes 1A3, 5/1L4, 3/1S5, 6/1T4, 1R5, 2/3A4. Requires 4.5 VDC 500 ma & 90 VDC 25 ma. Controls in English. W/accessories: CS-128 battery box, AN-130 and AN-131 antennas, ST-54 harness, ST-55 belt, M-391 pad, BG-150 bag, TS-15 handset, HS-30 headset, T-45 lip mic, CD-318 cord & SCR-300A manual. Radio 5.6x11.3x14.4 38 lbs sh. Used-complete, $125 #BC-1000-USA SET, above but with transceiver having U.S. Army ID tag, $147.50

WM-46 CABLE

CONTROL CABLE used in GRC-Series radio equip; rubber-covered w/ braid. Ten conductor #14, five which are braided. 10 ft (3#), $10. $80/100 ft.
W-128 WIRE, 2 ft, $2.50; 6 ft, $6.00
CO-213 CABLE, 35 ft, $10.00
CX-4720/VRC DC Cable, 10 feet, $11.00
CX-4721/VRC DC cable, 2.5 ft, $9.00
CX-4722/VRC Control Cable, 5 feet, $10.00
CX-4723/VRC Control Cable, 5 feet, $12.00
CX-8652 COILED Y-CORD f/H-161; 2/U229, $10.

38 TO 54 MHZ RECEIVER



R-110 RECEIVER 38 TO 54 MHZ FM CONTINUOISLY TUNEABLE, VARIABL SQUELCH AND AUDIO, OUTPUT IMPEDANCE 600 OHMS. 4.3 MHZ. I.F. WITH TUBES 3/1U4,2/1L4,1A3,2/3A5,1S5,2/3Q4,2/6AK5 & 0B2. VOLTAGES REQ. 135 VDC @ 70 MA. AND 6.3 VDC 2 AMPS.
SIZE: 9x13x7½; WT: 32 LBS. Used, $65.00

R-108 RECEIVER, same as R-110 except 20-28 MHz. Used, $22.00 GOV'T-RECONDITIONED, $36.00

R-109 RECEIVER, same as R-110 except 27-39 MHz. Used, $28.00 GOV'T-RECONDITIONED, $42.00

PP-282 POWER SUPPLY 24 VDC FOR R-108-109-110 RECEIVERS. MOUNTS INSIDE REC. USED $5.95

GRC SHOCKMOUNTS

MT-297 SHOCKMOUNT for RT-66-7-8, PP-109-112 & R-108-9-10 (GRC--3--8); 60 lbs. Used, $25.00

MT-298 SHOCKMOUNT for VRQ-1-2-3; holds two RT-66-7-8 and two PP-109-112 or other combinations. 40x5x13, 63 lbs sh. Used, $30.

MT-299 RACK for one RT-66-67 or -68 and one PP; 35 lbs sh. Unused, $25.00

MT-300 RACK for RT-70/AM-65, 24#. Used, $27.

MT-327 RACK for one RT-66-67 or -68, one R-108-109 or -110, one PP-109 or -112; 32 lbs sh. Used, $15.00; Unused, $25.00

RT-68/GRC TRANSCEIVER

RT-68/GRC TRANSCEIVER, 38-54.9 MHz FM continuously tunable or 100 KHz-step channels. Receives and transmits both voice and 1600 Hz ringing FM; range 10-15 miles. Receiver circuit has variable 1st IF 4.45-5.45 MHz and fixed 1.4 MHz 2nd IF; also squelch and 600 ohm audio output. Transmitter uses crystal-controlled oscillator and oscillator power amp; power output 2 watts (LO) or 15 W (HI). Also meter to monitor xmitter filaments and 90 V input. Requires PP-109 or -112 power supply. Tubes 4/1U4, 2E24, 2/1A3, 2/1L4, 4/1R5, 2/1AE4, 1S5, 4/3Q4, 3A4, 3/3A5, 2/3B4, 6AK5. 9x13x11.3, 42 lbs. Used, ~~$70.~~ $60
RT-66, like above, but 20-28 MHz. Used, $75.
RT-67, " " , " 28-38 MHz, *WRITE*

PP-112/GRC 24 VDC SUPPLY for RT-66-67-68 transceivers; provides all votlages from 24 VDC 6.5 amp input. 7.3x9x13, 39 lbs sh. Used, ~~$25.00~~ $18.
Gov't reconditioned, $35.00

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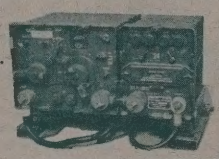
PP-109/GRC SUPPLY, as above but 12 VDC 12 amp input. Used, ~~$34.50~~ $24.

CX-1211 interconnect cable RT:PP units, $7.
MANUAL for AN/VRC-8-9-10, partial repro, $12



AN/VRC-10 RADIO SET, consists of RT-68, PP-112, MT-299, CX-1211 cable and manual; 90 lbs. Used, $105.

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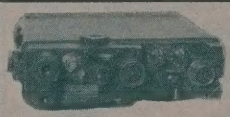
AN/VRC-9, as above, but with RT-67, *WRITE*
AN/VRC-8, as above, but with RT-66, used, $109.



RT-175/PRC-9 TRANSCEIVER, part of portable backpack set (accessories listed below) covering 27.9-38 MHz FM continuously tunable with 0.9 watt transmit output. Controls for Volume, Tune, Squelch, Pointer Adjust, and Dial Lock; tubes 9/5678, 2/5672, 3/5676, 1AD4, 5A6. See BA-279 BATTERY pg 6 for power requirements. 3x9.5x9, 10 lbs sh. Used, $38.

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HIGH BAND • FM — TRANSMITTER — RECEIVERS • LOW BAND

AN/GRC-109 RADIO SET

T-784/GRC-109 TRANSMITTER, 3 to 22 Mhz CW in bands 3-6, 6-10, 10-17 and 17-22 MHz at 10-15 watts depending upon frequency. Crystal control; tuned by adjusting 3 panel controls to tuning chart. Built-in CW key; uses 72 to 1200 ohm single wire antenna. Has codeburst capability, if used with GRA-71 (not available). Tubes 2E26, 6AC7. Requires 450 VDC 100 ma & 6.3 V 1.2 A; 8.6x5.5x5.5, 12 lbs. Used, $25. RT-3 TRANSMITTER, similar to T-784 but without code burst capability. Used, $24.95

R-1004/GRC-109 RECEIVER, covers 3 to 24 Mhz AM-CW in bands 3-6, 6-12, and 12-24 MHz; 455 KHz IF. Bandwidth 9 KHz; 30 MW audio into 4000 ohms. With tubes 4/1T4, 1U5, & 1L6. Requires 1.5 VDC 300 ma and 90-108 VDC 20 ma. 8.6x5.5x5.5, 12 lbs sh. Used-reparable, $59.50

PP-2685/GRC-109 or RP-2 POWER SUPPLY provides voltages for R-1004/RR-2 and T-784/RT3 from 75-260 VAC 40-400 Hz input. Meter monitors AC input; connections for Rx and Tx. 8.x5.5x5.5, 19 lbs. Used, $24.95

PP-2684/GRC-109 POWER SUPPLY, like PP-2685 but also operates from 6 VDC 13 amp input; 10x8.5x5.5, 28 lbs sh. Used, $25.00

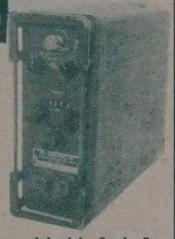
MANUAL for GRC-109, partial repro, $10.00
CN-553/GRC-109 VOLTAGE REGULATOR, for use with G-43 generator and R-1004; 6 ft cord w/PL244 plug: 4#. Used, $14.95; Unused $20

LAMP BASE & EAI SCREW/BAYONET ADAPTERS, $3.

* *

AN/GRC-109A RADIO SET, includes later model R-1004A, T-784A and PP-2685A; larger cases have hasp fastners: 50 lbs sh. Used, $120. GRC-109A SET plus PP-2684A; 82#. Used, $140.

PRC-41 UHF RADIO



RT-695/PRC-41 UHF MANPACK UHF TRANSCEIVER, 225 to 400 MHz AM in 100 KHz steps using mechanical digital counter; output at least 3 watts over range. Also has guard channel, Volume, Squelch, and U-77 connection for H-33 handset. Solid-state except for tubes 6442, 4/7077, and 4/7544. Requires 24 VDC 3 amps; 14x11.3x4.5, 22 lbs sh. Used-reparable, $295.00

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MANUAL for PRC-41, partial repro, $20.00
H-33/PT HANDSET, used-checked, $17.50
AS-1404 OMNI-ANTENNA, 2#. Used, $20 w/set.
AS-1405 DIRECTIONAL ANTENNA with AB-777 support & adapter; 13 lbs. Used, $60.00
PP-3700 115 V SUPPLY, clips to R-T; 22#. $75
MT-2976 VEHICLE MOUNT; 10 lbs sh. Used, $25.
MT-2977 MOUNT for PP-3700, 4 lbs. Used, $9.
CY-3883 or CY-3885/PRC-41 CASES, 83#. $45 ea

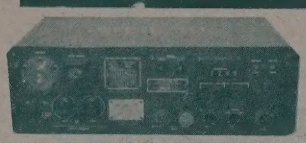
PRC-41 AC SUPPLY

PP-3700/PRC-41 AC POWER SUPPLY, provides 26 VDC for RT-695/PRC-41 (page 3) from 115/230 VAC 50-400 Hz input as alternative to BB-451 25 AH battery (pg 26) in vehicular or fixed station usage. Clips onto and directly connects to RT; or CX-8686 cable may be used to connect PP to MT-2976 rack. CX-8687 connects PP-3700 to AC power source. 7.8x11x4.1, 20 lbs sh. Used, $75.00
CX-8686 CABLE, PP to MT, 20 ft, 4 lbs. $10.
CX-8687 CABLE, PP to AC, 50 ft, 8 lbs. $12.

* *

MK-706/PRC-41 ACCESSORY KIT, has PP-3700, CX-8686-8687, MT-2976-2977, AS-1405, AB-777, mast adapter, guy stakes, maintance cable kit, etc. in CY-3885 aluminum case (15.5x35 x26.5); 125 lbs (UPS in 2 pkgs.) Used, $195.

2-12 MHZ USB 100 WATTS



RT-671/PRC-47 HF TRANSCEIVER, 2 to 11.999 MHz USB (voice and CW+800 Hz) in 1 KHz steps. Output 100 watts PEP (Hi) or 20 W (Lo). FSK possible with accessory converter (not available). Transistorized except for PL-177WA tube in power amp and 5907, 7761, and 7905. Has 5-place mechanical digital tuning, P-A Load and Tune controls, and XMTR Output Meter. Designed for field or vehicular use; operates from either 24 VDC 20 amps or 115 V 400 Hz. 7x 21.3x13.5, 45#. Used-reparable, ~~$300~~ $150.
MANUAL for PRC-47, partial repro, $25.00
AS-1320 15'WHIP ANTENNA w/MT-2786 LEGS, $20.
AS-1321 LONG-WIRE ANTENNA, 3 lbs., $12.00
J-45 KEY and legiron, used, $20.00
H-33/PT HANDSET, $17.50; LS-166 SPEAKER, $15
H-233 HEADSET with U-93 plug, used, $18.95
CX-8396 "Y" CABLE for H-233 to RT, $8.00
CX-8393 50 ft AC CABLE, $12.00
CX-8394 10' DC Cable, $10. CX-8395 CABLE $8.
RUCKSACK SET with frame and straps, $20.00
CY-3700 ALUMINUM TRANSIT CASE, 65 lbs, $35.

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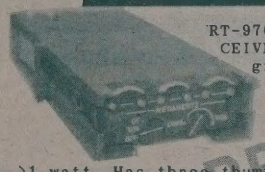
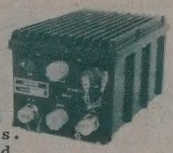
PRC-47 ACCESSORY PACKAGE! Above accessories and manual; 100#. Used, $150 w/set purchase

RT-976A/PRC-75 UHF



RT-976A/PRC-75 UHF TRANSCEIVER, rugged handheld ground-to-air tactical synthesized radio covers 225 to 399.95 MHz AM-MCW in 50 KHz steps (3500 channels). Power output >1 watt. Has three thumb operated dials to set frequency; design freq-accuracy 1 part per 100000. Also has 1000 Hz audio beacon-DF tone. RF input 50 ohms; audio output 600 ohms. Requires 18-30 VDC from battery pack (not supplied); no accessories; 1.6x4.3x8, 6#. Used-reparable w/book. ~~$375.00~~ $300.

PRC-41 UHF POWER AMP



AM-6669/PRC RF POWER AMPLIFIER, designed for use with PRC-41 transceiver, but usable with other 225-400 MHz xmitters such as PRC-66, ARC-45, etc. Power output: 10 watts from 2-3 W input; "N" connections. Solid-state; 24 VDC required. 5.3x6x9.8, 10#. Gov't-reconditioned, $109.50

PRC-25 AC SUPPLY

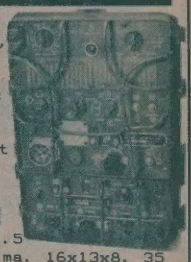
C-7673/PCC-1 RECTIFIER CONTROL UNIT, intended for use with two RT-505/PRC-25 transceivers and TH-81 terminal as controller for telegraph-telephone repeater system. Also functions as 115 VAC 60 Hz or 24 VDC supply for two RT-505's. Control one or both RT-Unit, power DRY BAT-BB451-OFF-VEH-115 VAC, handset connection, cables, two 3 amp fuses for AC & two 5 A for DC. 2.1x9.7x6.6, 10#. Used, $75.00; "AS-IS not working", $35.

DY-88 POWER SUPPLY

DY-88/GRC-9 DYNAMOTOR POWER SUPPLY, powers RT-77/GRC-9 from 6, 12 or 24 VDC input @ 29/14/6.7 amps max. Usable to power other transceivers. Output: 580 V 100 ma, 105 V 45 ma, 6.3 V 2 A, 1.4 V 500 ma, 6.3 V 575 ma. 13x11.3x9.5, 40 lbs sh. Used, ~~$100~~ $49.50 CX-2031 POWER CABLE, $8.

DY-105 DYNAMOTOR SUPPLY, same as DY-88 except 24 VDC input only; used, $45.00

RT-77/GRC-9 TRANSCEIVER



RT-77/GRC-9 BACKPACK TRANSCEIVER, covers 2-3.6, 3.6-6.6, and 6.6-12 MHz; Hi-Lo outputs 7/1 watt AM, 15/5 W CW. Receiver section has 456 KHz IF and 200 KHz calibration points. Transmitter is continuousy tunable or two preset channels; uses 2E22 tube in power amp. With tubes 2/1L4, 3/1R5, 1S5, 3/3A4, and 3Q4. Requires 580 VDC 100 ma, 6.6 VDC 2 amps, 120 VDC 45 ma, 1.5 VDC 500 ma, and 6.9 VDC 575 ma. 16x13x8, 35 lbs sh. Used, ~~$69.50~~ $54.50

+ + + +

VERY HIGH VOLTAGE

DC POWER SUPPLY WITH 107-125 VAC 60 Hz PRIMARY. TWO OUTPUTS: -5.4 TO 5.75 Kv. @ 140 TO 300 u-A. ONE OUTPUT: -5.1 TO 5.3 Kv. @ 100 TO 270 u-A. SIZE: 12½x2½x4½ WT: 10 LBS. GE#9T63Y2029G6, USED, $10.95

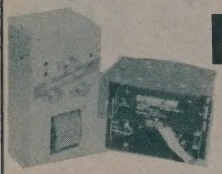
HV DC - DC CONVERTER

HV DC to DC CONVERTER p/o CRT HV module; input 5-15 VDC 100 ma; output 4.5 to 13.5 KV. Also 135-402 V & 70-90 VDC. Potted; PTK mfg. Use in experiments or in "bug zapper." 3.2x4.2x1.4, 3 lbs. #ULC-14-07C, NEW, $9.95

MODULAR POWER SUPPLIES, 105-132 V 48-63 Hz input; outputs +5% @ 40 C with +10% voltage adjust. NORTH ELECTRIC N11006A, output 6 VDC 3.5 amps; 3.1x5x7, 8 lbs. $12.95

N65006A, 5 VDC 35 A; 5x7.5x11.8, 20#, $45.

POWER MATE PXC-C-36, output 36 VDC 2.3 amps; 3.1x5x9.5, 9 lbs sh. $16.95



28 VDC SUPPLIES

Heavy-duty transformer type modular DC supplies trim pot adjustable outputs; 115/230 VAC input: DELTRON Q28-3.1, 28 VDC out @ approx 3 amps. Current limit set at 8 amps but runs very hot to maintain 28 VDC. 7x4.8x2.8, 10#. NEW, $24.

POWER ONE #CP366A DUAL DC SUPPLY, outputs +24 VDC 3 amps with current limit adjust and +12 VDC 2 A. Also unregulated -5 V 0.75 A, -6.6 V 0.5 A. 5x6.8x4.8, 11 lbs. NEW, $28.95

24 VDC 6 AMP SUPPLY

24 VDC 6 AMP POWER SUPPLY originally used in Xerox equipment but usable to power R-392 receiver and other equipment. Requires 105-125 VAC 60 Hz input. 4x9½x8½, 20 lbs. #AS-59134, used-checked, $24.95

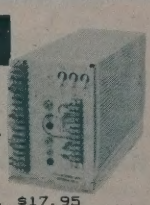
SOLID STATE POWER SUPPLY with 20-24 VDC 4.8 amps output from 115 VAC 60 Hz input. Supply has front voltage adjust +/-10%, running light, AC reset. Also adjustable current limiting and overvoltage protection. Conservatively rated and ruggedly built on a steel frame. 9.5x7 x20, 47 lbs sh. #NCR-332, used, $35.00

5 VDC 3 AMP

EXELON DC REGULATED SUPPLY, 5 VDC 3 amp and 12 VDC 0.1 amp output from 115/230 VAC 47-63 Hz input. "L"-mount; 5x5.3x2.8, 4 lbs. #PS-1545, unused, $9.95

DRESSEN-BARNES DC SUPPLY, output -52 VDC 3 amps w/ voltage adjust. Input 120/240 VAC 47-63 Hz indicated on 0-300 VAC meter. 5x19x10, 33#. Used, $45.

12 VDC FOUNDATION



COMPUTER POWER SUPPLY provided 12 VDC 3.5 amp & 4-5 VDC 17.5 amps output with current limit and OVP from 115 V 60 Hz input. Units less regulator cards but otherwise complete. Good basis for your custom supply. 6x8.5 x14, 34 lbs sh. #9566-LC, used, $17.95

+ + + +

CATHODE RAY

CRT'S, pull-outs or unused:

2AP1	$15.00	5AP1	$10.00
902	17.50	5ABP1	$30 $20
3ADP1	$25 $15	5BP1	7.50
3BP1	17.50	5BP1A	$20 $12
3CPS1	3.00	5BGP1	$45 $25
3DP1	6.00	5BHP2	$45 $25
3E33P7	20.00	5BDP7	$22 $11
3FP7	6.00	5CP1	$7.50 $4
		5CLP11	$15.00
3HP7	4.00	5FP7	12.00
3JP1	12.00	5FP14	15.00
3JP12	$12 $8	5GP1	15.00
3RP1 new	$35	5JP1	12.00
K135P7	$10	5HP1	15.00
4QP31	40.00	7BP7	$16 $9
5AMP2	$40 20	7CP7	15.00
10KP7	12.00		

* * * * * * * * * * * * * *

5DEP31 FLAT-FACED CRT, used in Heath scopes; replaces 5UP1 with simple socket wiring change. NEW ~~$35~~ $17. SOCKET for 5DEP31, $2.50

CRT's for TEKTRONIX SCOPES used-checked, no burns:

#T51P2/5BGP2 f/531-535,	$45
T54P2/5BHP2 f/541-545,	$45
154-0183 f/545A, NEW,	$65
154-0221 f/555, NEW,	$75
T5810 for 581, 585,	$65

Others available. WRITE!

SPECIAL TUBES

Checked	$2.00	3B28 U	7.
Unused,	$4.00	6BA7 Un	4.25
2050	5749	6CL6 Un	4.25
5651	5750	26Z5	8.50
5654	5751	5642 Un	8.
5672SL	5814	5763 Un	7.50
5678SL	5963	6080 U	4.50
5670	6005	6082 U	7.
5687	6072	6442 Un	25.
5725	6201	6528A Un	40.
5726	6350	6922 U	3.
5727	6414	6939 U	5.50

U=USED, CHECKED; UN=UNUSED

100TH	U 27.	832A U	8.
2C42	U 12.	836 U	6.
2C46	U 10.	837 U	4.
2E22	U 9.		
3C22	Un 10.	866A U	7.
6L6WG	U 3.50	930 Un	12.
5675	Un 24.		- - - - - -
5768	U 25.		954/955/956/
5876	Un 24.		957/958/1619
5933/807	U $5.		1626/1630
6159	U 4.		1632/1642
717A	Un 7.50	Used,	$2.50
203A	Un 18.	Unused	$4.50
803	Un 32.		- - - - - -
815	Un 15.		1625 U $3.50
829B	Un 15.		Un $5.50

6L6GC NEW not U.S. mfg, $5.
6CA7 NEW not U.S. mfg, $7.
6146/8298 (U.S.) used, $8.

STANDARD TYPES

USED, $2.00; UNUSED, $3.50

0A2 0A3 0B2 0B3 0C3 0D3 0Z4 1A3 1A5 1A6 1A7 1B3 1B4 1B5 1C5 1C6 1D5 1E7 1F3 1G6 1H6 1J3 1J6 1K3 1L4 1N5 1N6 1P5 1R4 1R5 1S2 1S4 1S5 1T4 1U4 1X2 1V2 1LA4 1LA6 1LC5 1LC6 1LH4 1LN5

USED, $2.00; UNUSED, $3.50

3A4 3A5 3B4 3Q4 3S4

2X2 used, $1.50; unused $3
2E24 checked $3. Unused $5.
2E26 " $3. Unused $6.

USED $2.00; UNUSED $4.25

5A6 5R4 5T4 5T8 5U8 5V3 5V4 5W4 5Y3 5Z4

USED, $1.75; UNUSED, $3.50

GLASS GT-types only

6AB4 6AB7 6AH6 6AC7 6AF3 6AF4 6AF5 6AF9 6AF11 6AG5 6AH4 6AK5 6AK6 6AL5 6AQ5 6AQ7 6AN5 6AR6 6AS5 6AS6 6AT6 6AU4 6AU5 6AU6 6AU7 6AY3 6AW8 6AV5 6AV6 6AX4 6AX5 6BA6 6BA11 6BC5 6BC8 6BE3 6BE6 6BH6 6BJ3 6BK4 6BK5 6BK7 6BL7 6BN4 6BN6 6BQ7 6BQ6 6BU8 6BZ6 6BZ7 6CB5 6CB6 6CF6 6CG3 6CG8 6CG7 6CG8 6CM7 6CS6 6CS7 6CU5 6CU8 6CY5 6CY7 6CX8 6DA4 6DE6 6DK6 6DK7 6DG6 6DQ6 6DN6 6DN7 6EA4 6EH4 6EJ7 6EM5 6EM7 6ES5 6FQ7 6FY7 6FW5 6FM7 6GF7 6GH8 6GK5 6GJ7 6GW6 6GM6 6HB7 6JH6 6JT8 6JU8 6KA8 6KZ8 6LM8 6SQ7 6LU8 6SA7 6SD7 6SF5 6SH7 6SJ7 6SK7 6SL7 6SN7 6SR7 6ST7 6SU7 6ZY5

IF YOU DON'T SEE WHAT YOU NEED LISTED, PLEASE WRITE.

Many other tubes in stock. No complete list available. WRITE us your needs. WE WILL SHIP "USED-CHECKED" TUBES IF "UNUSED" SOLD OUT, UNLESS YOU SPECIFY "UNUSED ONLY".

USED, $2.00; UNUSED, $4.00

GLASS G/GT types only

6A6 6B8 6C4 6C5 6C6 6F5 6F7 6F8 6G6 6H6 6K4 6K6 6K7 6K8 6J4 6J5 6J6 6J7 6L4 6L5 6L7 6N4 6N7 6R7 6T8 6T7 6T4 6U6 6S8 6U8 6V6 6V8 6V7 6V3 6W4 6W6 6Y6 6Z7 6X5 6X4 6X8 6Z4

USED, $2.50; UNUSED, $4.00

7A4 7A5 7A6 7A7 7A8 7B5 7B6 7B7 7B8 7C4 7C5 7C7 7E7 7K7 7L7 7T7 7X7 7V7 7W7 7Q7 7S7 7Y4 7Z4 7AD7 7AU7 7AH7 7AG7 14A5 14A7 14B8 14C5 14C7 14E6 14F6 14F7 14N7 14R7 14W7 28D7

USED, $2.00; UNUSED, $3.50

12A5 12A6 12A8 12C8 12B4 12D4 12H6 12J5 12J7 12K7 12K8 12L6 12Q7 12W6 12X3 12Z3 12AC6 12AF6 12AH7 12AL7 12AU7 12AX4 12AZ7 12BA6 12BA7 12BE6 12BF6 12CA5 12SA7 12SF5 12SG7 12SH7 12SJ7 12SK7 12SL7 12SN7 12SR7 12AT7 12AU6 12AV7

USED, $2.00; UNUSED, $3.50

8BQ7 8B10 9KZ8 10EG7 10DE7 15KY8 17D4 17BF11 17AX4 17GW6 17DQ6 19AU4 19T8 21JV6 21GY5 22JM6 27GB5 25L6 25W4 25DN6 25BQ6 25Z5 25Z6 32L7 35B5 35C5 35L6 35A5 35Z3 35Z4 45Z5 35Y4 50A5 50C5 50C6 50L6 50X6 50HK6 70L7 117Z4 117Z6

USED-CHECKED, $3 ea: 26A6, 26A7 26D6 26E6
-USED-CHKD $2.50; UNUSED $4
9001 9002 9003 9004 9006

OLD TUBES as available
USED, $2.50; UNUSED, $4.50

19	24	32	33	34	35
36	38	39/44	41	43	48
57	58	77	78	79	89

UX-201A/301A, used, $12.50

ANTIQUE GLOBE TUBES, used-checked, $7.50 each:
224/324 227/327

30/VT-27, unused, $6.00
*NUVISTORS, used-checked:
6CW4 $6. 7587 $16. 7077 $40
- - - - - - - - - - - - - -
"EYE" TUBES, used-checked, $7.00 ea; if unused, $11 ea:
6AF6 6AL7 6E5 6U5 1629
+ + + + + + + + + + + + +
EM34/6CD7 "eye" tube, $10.
HAMAMATSU R444-T2 photo-multiplier, unused, $40.00

METAL TUBES,

Used-checked $2. Unused $4.
6A8 6B8 6C5 6C8 6F5 6F8 6H6 6J5 6J7 6K7 6K8 6L7 6N7 6R7 6SC7 6SA7 6SD7 6SF5 6SG7 6SJ7 6SK7 6SR7 6SS7

POWER AMP TUBES, used-chkd unless otherwise noted; (stt)=subject-to-your-test.

2K25 black, unused,	$50
3CX100A5/7289, 6 V fil.,	$9
3CX100A5/7289, unused,	$22
4-400A (US-made), stt,	$85
4CX250R/8570 6 V fil.,	$45
4D32 Raytheon, unused,	$75
4X150A, 6 V fil.,	$24
4X150D, 26 V fil.,	$25
4X150G coaxial, unused,	$30
6BM6 klystron, unused,	$75
PL-177WA stt	$22
7077 planar, stt,	$40

CRT TUBE SHIELDS & SOCKETS:

CRT #	SHIELD	SOCKET
3BP1	$4.00	$2.50
3RP1	4.00	2.50
5BP1		2.50
5CP1	5.00	3.00

MINIMUM ORDER $10.00

PLUS SHIPPING CHARGES. Minimum charge on approved open-accounts is $20.00 plus shipping charges. COD orders permitted at our discretion, if customer provides 50% total-order cash deposit. UPS COD fee $4.00.

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TOTAL	

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RELAYS

DELTROL 105ML MAGNETIC LATCHING RELAY, one SPST norm open; other SPST norm clsd. Actuates 15 VDC min. Octal base. 2x3¼x2, removed $3.95

SPDT & SPST octal 28 VDC 1 A contacts; 0.9 ma pickup, 0.1 ma dropout. #GH-2925 $3.

4PDT 48 VDC 3700 ohm coil; 1-5/8x2. MHX4069 used $1.

2PDT 26 VDC 675 ohm coil, 2 amp; sealed, solder hooks. 3/8x1x¾, #30-01G used $2.00

DPDT 26 VDC 450 ohms, 2 amp res; sealed w/solder hooks. 0.9x0.9x.09. #K23/ARC58 $2.

OMRON 3PDT RELAY w/24 VDC 650 ohm coil; 2 A contacts. 11-pin solder/plug-in lugs. 1x1⅝x¾; #OM-MY3 unused $2.

Sealed SENSITIVE RELAY, 50 ohm 28 ma coil; DPDT contacts. Solder hooks; 1x1x2¼. #R400-2B-50, $2.95

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90 V 60 Hz 3PDT octal KA4187 $2.

DPDT 115 V 60 Hz 5 A contacts; octal. KR5737 $2.50

4PDT 120 VAC, 3 AMP CONTACTS; 28 VDC 3 A RES. PLUG-IN SOLDER. ⅝x1x1½, #KH4695, $1.50

MIDTEX DPDT 20 AMP 120/240 VAC or 10 A 480/600 VAC; plastic case w/mount tabs. #187-321200, NEW, $3.50

ALARM PC BOARDS w/soldered relays, 3-LED's, transisters, etc; 4⅛x1⅝x6 #556015, 2-Sigma 70RE22ST-1000 DPDT 12 VDC relays w/2 A 28 VDC/ 115 VAC contacts; $3.25 #556168, 2-P&B R10S-E2-Z4-J500 sensitive relays, 500 ohm 9 ma coil; 4PDT 2 amp contacts, $3.75 #556-01R, one P&B R10-E49-04-3 4PDT relay, 12 VDC 1000 ohm coil, 2 A; also Klixon 2 A cir-breaker, $3

3-POLE CONTACTOR rated 220 VAC 50-60 Hz 50 AMPS with normally closed auxiliary contact. P/o 10 KW xmitter; 10.3x6 x4.3, 12 lbs. Used: #K3001/TMC, used, $25. #K3002/TMC, with normally open aux contact, $24.95

MAGNACRAFT SPDT, 12 VDC 10 amp contacts, 100 ohms. Open frame; 1⅝x1¼x1. #88X-150A NEW $2.50 ea.

SENSITIVE RELAY SPDT 6 to 12 VDC 1500 ohms, contact adjust. 2.8x2.3x2.3, 1#. #RM39/1901, removed f/equipment, $1.50

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SENSITIVE RELAY, 300 ohm coil res; operates @ 2.05 VDC. #K11180-1, $2.25 ea

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REED RELAY 3 VDC 300Ω coil, SPST n.o. contact (low current); PC mount. 1x0.4x0.4; #CR4003-6-1001, NEW, $1.25

PETER PAUL VALVE w/120 V 60 Hz 9 watt coil; 1/8" orifice, 11⅛"L hose. SER-GH 90 psi; 2 lbs. #PP-32NfDGW, unused, $4.95

POLAR RELAY, Type 255A, various manufacturers; black or grey case. 2¾x5⅝x2¾, 3 lbs. #D163119A NEW $3.25

12 VDC CONTACTOR SPST n.o. 28 VDC 50 amp contacts; 27 ohm coil. 3.3x2x2.5, 1# sh; used. #RE/MT-GRC, $5.

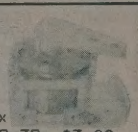
SWITCH-GENERATOR CONTROL RELAY, differential type rated 24 VDC 300 amps; 4x4x3, 4 lbs. GE#36TR72E4, unused. $10.

P&B 12 VDC 3PDT OPEN FRAME RELAY with 5 A contacts and solder terminals. 1.7x1.9 x1.5. #KA14DY-12, NEW, $2.95

12 VDC 4PDT relay similar to P&B KHU-Series. 115 VAC 1 amp contacts; solder or socket-type mount. #FRL-264, NEW, $2.25

P&B PR-80164 OPEN FRAME, SPST n.o. 12 VDC; contacts 120 VAC 5 A. 2½x2½, unused, $2.50

ROTARY RELAY 28 VDC, operates at 15 V; holds at 5 V. 2¼x 1-3/8x2, 2 lb. #5533/HK22, removed, $2.



ROTARY RELAY, 28 VDC; single wafer, no unused contacts. Shaft has 2" arm. 2x 1.9 dia. #8002-32, $3.00

4PDT RELAYS w/ 10 amp contacts; 2x 1.8x2. Used: #DOX-137T, 24 VDC 230Ω coil, $2.95 #DOX-187, 110 VDC 5000 ohm coil, $2.25 ea

STRUTHERS-DUNN CONTACTOR, 12 VDC coil 24 VDC 50 A contacts. 3.3x 3.3x2.8, 2# sh #KS5722L $4.50

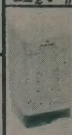
DPDT MICALEX RELAY, open frame; 115 VAC coil, 10 amp 115 VAC contacts. 3.6x2.4 x1.6, 2#. #RY3/610M used $18

115 VAC 60 Hz COIL 25 amp @ 28 VDC/ 115 VAC contacts; solder terminals. 1⅝x3x1⅝; Kurmelec #26S20/2054 used $4.

JE#3SBW1001A2 SPDT 9.6-15.8 VDC relay 206 ohm coil; used in GE mobile transceivers. F/solder or socket connections. 1x1 x⅝. New, $1.50. 24/$25.00

REED RELAY CIRCUIT BOARD, 3/500 ohm and one 5K ohm 10-15 VDC reed relays w/large 1/8x1/16" contact area. Also one 26 VDC DPDT sealed relay 3/8x¾x7/8 #792-312, unused, $2.50

SPST 24 VDC OPEN FRAME, 25 amp contacts; 3-1/8x1-3/8 x1⅝. #B-2A-OPF unused $1.75



P&B #AKC7DY DPST n.o. 24 VDC coil; contacts 120/240 VAC 10/5 A. Metal cover w/bracket & term-lugs. 1.5x3 x2.3; 1#. NEW, $2.95

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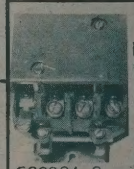
1TT SOLENOID VALVE, 10 PSI 24 VDC 6 W coil, 1/8" port, 2"Lx1.1"d S321Z1012, NEW $5.

- - - - - - - - -

GUARDIAN DPDT 115 VAC ¼ HP 10 A; solder terminals, plastic case. 1⅝x1⅝x1¼. #A410-361342, NEW, $2.50

ROTARY STEPPING SWITCH 115 V 60 Hz ratchet-type that can be modified to take upto seventeen contacts with electric reset. 4.2x3.2x2.5 2 lbs sh. #SS-109216, $3.75



ROWAN CONTACTORS COIL 110v 50/60HZ FULL LOAD RUNNING CURRENT 10 AMP. LOCKED ROTOR CURRENT 60 AMP. 600 V. MAX. 532934 3 POLE USED $4.95

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LEDEX

LEDEX HEAVY DUTY SOLENOID #S-8210-025, 8-position 45° stroke, 28 VDC Starting torque: 5 lb-in @ 35 watts (15 lb-in holding) continuous duty. Upto 32.8 lb-in starting torq. @ 700 watts 1/20 duty. 7S size: 2⅞" dia x 1-7/8" with ⅜"x3/8" dia. shaft. 4 lbs. Unused, $4.95

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48 VDC ROTARY ACTUATOR, 30° index, 70Ω coil. One fiberglas wafer w/4 shorted contacts unless "selected". 1"L shaft for adding 2 more 1-7/8" wafers. O/a 3x2.3 x2.8. #81840-123456, $4.95

TIME DELAY/SEQUENCE RELAY, has 3-SPDT & 1-DPDT 12 VDC 6 A. relays. Delay sequence ON/3.5s/5.0s/10 sec. Solid-state w/24 V 1 amp transformer, 250 mfd 50 VDC cap. 115 VAC 60 Hz input. 7¼x3⅝x3¼, 3 lbs sh. #140-P197C $6.95

SIGMA DC RELAYS; OPEN-FRAME, 2 AMP CONTACTS, 1¾x2¼x1½ REMOVED F/EQUIP.

#41F1000SIL, 12 VDC, $1.50

P&B 4PDT TIME DELAY RELAY, 24 VDC 5 amp contacts. Adjusts 1.0-45 sec with 15-turn pot, polarity protect. 1.6x1.3x0.8 #R12-30-24-X4-E1, NEW $9.95

P&B KR-4175-1 DP-DT PLATE RELAY; sealed metal can, requires octal socket. 2.5x1.5 x1.4, unused, $2.00

DUAL COIL each 3PST; one 24 VDC, other 48 VDC. PCB mtg. 2⅜x½x1¼; #116-2601, $2.50

MOTOR DRIVEN SPST RELAY normally open, 115 VAC 60 Hz 10 A contacts. Non-synchronous 115 VAC 4/5 RPM motor's cams can be set to make contact over 30-60 sec range. Provision to bring out shaft. 2.5x4x2, 1 lb. #N17R-68292, unused $5.

ALLIED CONTROL T255X-18, COIL 115 VAC 2580 OHMS. GOLD-PLATED DPDT CONTACTS RATED 5 A 29 VDC. ⅝x-7/8 x1-3/8. UNUSED, $3.00 EA.

CONTACTOR RELAY, 12 VDC coil & 12 V SPST norm-open contacts; ~20 amps. 2x1.8 x1.1; 1#. #81-2450-1, $3. 10/$24. 50/$100.

MUTER 433-AC 10K OHM POT, 1930's-40's precision pot; ¼" dia shaft. 3⅛x5¼" dia. Unused $4.

Other old-style PRECISION POTS, 2-5/8" dia with 3/8" dia shafts. Unused: DEJUR #353-5235, 20000 ohms; 1"H, shaft, 5/8"L, $2.00 DEJUR #RA60-253AK, 25K ohms; 2-5/8"H, shaft 2.5"L, $2.

STEPPING SWITCH 9-deck 20-position 115 VDC Clare type 20 6x6x2, 5 lbs. #A320750 $10.

SOLID-STATE RELAY control voltage 3-10 VDC, 140 VAC 5 amp load; 2x1x1. Teledyne #601-1003, NEW $3.

TIME DELAY on release; knob adjust 0.1 to 5 sec. Contacts 10 A 120 VAC resistive. Plugs into 11-pin socket. 1.8x2.4 x2.9. P&B #CDB-38-70091, $7

P & B 3PDT PLUG-IN TYPE RELAY WITH 24 VDC COIL. 120 VAC 10 A. CONTACTS. #KUP14D15, W/SOCKET, $2.95

AC CONTROL RELAY, 120 VAC COIL; SPST N. OPEN 10 A. AND SPST N. CLSD. 10 A. CONTACTS. SEALED CAN, SOLDER TERM. 3 STUD MTG. 2¼x 1¼x1⅝. #7321/6717, $2.50

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DOLLAR DAZE RELAY PC BOARD, 3-SPDT 12 VDC relays in 1x5/8x⅝ plastic cases $1.50

45-83

RHEOSTATS

RHEOSTAT VALUES: FIRST SET OF NUMBERS AFTER RHEO-PREFIX IS THE WATTAGE. YOU INDICATE DESIRED OHMS IN SECOND SET. SCD= SCREWDRIVER ADJUST.

#RHEO-25W-(ohms), $1.50 ea
5 6 7 10 15 50 60 75 150 164 175 200 250 350 400 500 600-scd 1500-scd 2500-scd 6050 10K-scd 15K 20K

DUAL: 100/500 ohm $2.75

#RHEO-50W-(ohms), $2.25 ea:
5 12 15 16 18 25 30 100-scd 200 225 300 375 4K DUALS: 16, 35, 5K $4 ea DUAL 50/25 W 800/500 $4.

#RHEO-75W- 25 $2.50
#RHEO-100W- 15 $3.00
#RHEO-150W- 2 25 750 $5.00
DUAL 245 $7.50
#RHEO-225- 3 ohm $6.50
#RHEO-300W- 350 ohm, 3#, $8
#RHEO-1000W-16 ohm, 10# $22

POTENTIOMETERS ALPS or = with switch; 5/8" dia + term. Shaft 1/4" dia: 10K, 50K, or 100K, $1 each CENTRALAB #WN-100-10, 10 ohms linear taper, $.75 ea 20K OHM 4 WATT, $.75 ea

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#CP800/50K, 50K ohms 12-step 5%, used $4.50
#T800/50K, 10-step "T" 1% $7.

MIRRA 25 WATT "ANTIQUE" POTS w/ knob and pointer. Looks like those used in 1920's radios. Specify ohms: 250, or 400. Unused, $4.50

10-TURN HELIPOTS 2"Lx1⅞" dia; ¼" dia shafts. Used.

30K ohms 3-term 3% 1/2"L shft $3
50K ohms 3-term 3% 1/8"L shft $3
5K ohms 2-term 3%, 1/2" shaft, $3.00

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RB-DUODIALS f/above Used $5

BOOKS & TECH MANUALS

TERMS: All manuals include maintenance info & schematic unless noted otherwise. O.I.= Operating info only N.S.= No schematic Repro= Partial reproduction w/theory, maintenance info & schematic.

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AN/ARC-5 BENCH TEST and ALIGNMENT, covers necessary info to align R-23A, R-148, R-25-26-27 receivers; T-18 thru T-22 xmitters; and MD-7 modulator. W/schematics; repro. $8.50

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AM-65 5.00
AM-598 4.00
AN/APR-4 repro 12.00
AN/ARC-27 O.I. 5.00
AN/ARC-38-38A repro 20.00
AN/ARC-60 (R-19/CV-431 repro 10.00
AN/ARC-73 repro 20.00
AN/ARN-12 7.50
AN/ARN-30 repro 10.00
AN/ARN-59 O.I. 4.00
AN/ARR-52 repro 17.00
AN/ART-13 Tx repro 12.00
AN/CRT-3 7.50
AN/GRC-3-8 12.00
AN/GRC-9 8.50
AN/GRC-10 8.50
AN/GRC-14 (MRC-55) for R-808/T-631 22.00
AN/GRC-109 repro 12.00
AN/GRR-5 7.50
AN/GSC-1 7.50
AN/PDR-27 8.50
AN/PRC-6 7.50
AN/PRC-8-9-10 repro 10.00
AN/PRC-9A-10A repro 10.00
AN/PRC-25 repro 20.00
AN/PRC-47 repro 25.00
AN/PRC-77 repro 20.00
AN/PRM-10 repro 8.50
AN/PRR-9/PRT4 repro 15.00
AN/TRC-1 (T-14, R-19, and AM-8/TRA-1) 15.00
AN/TRC-8 repro 15.00
AN/TRC-24 etc 17.00
AN/TRC-75 repro 100.00
AN/TRC-77 repro 15.00
AN/TRM-1 repro 10.00
AN/UPM-84 repro 15.00
AN/UPM-84A O.I.repro 8.50
AN/URC-68 repro 15.00
AN/URM-25D repro 10.00
AN/URM-25F repro 10.00
AN/URM-26B repro 12.00
AN/URM-127 repro 10.00
AN/USM-105 repro 17.00
AN/USM-116 repro 10.00
AN/USM-117 repro 15.00
AN/USM-140 repro 17.00
AN/USM-281A repro 25.00
AN/USM-281C (Tektronix 7603N11S) repro 25.00
AN/VRC-3 repro 10.00
AN/VRC-7 repro 12.00
AN/VRC-8-9-10 repro 12.00
AN/VRC-12 O.I./O.M. 12.00
AN/VRC-16-17-18 7.50
AN/VRC-19 (R394/T278) 8.50
ARC TYPE 12 (R-10-11-15-19, T-11-13) 12.00
BC-191 or BC-375 7.50
BC-AS-229 repro 8.50
BC-221 most models 10.00
BC-312-342 repro 10.00
BC-348-J-N-Q or K-L-R or M-O-P repro 10.00
BC-603/604 repro 12.00
BC-610/939 repro 15.00
BC-611/SCR536 repro 12.00
BC-620 repro 12.00
BC-624/625 repro 15.00
BC-652-653 (SCR-506) 7.50
BC-659(SCR-609/610) 12.00
BC-669 repro 8.50
BC-683/684 repro 12.00
BC-779/1004 repro 12.00
BC-1335 10.00
CU-872 repro 8.50
CU-1658 (COL 490T1) 14.00
CV-157 repro 15.00
CV-591 (MSR-4)repro 10.00
CV-1758 (MSR9)repro 10.00
CV-1982/TSC26 repro 10.00
DY-93-98-100 4.00
EE-8 5.00
FR-5/URM-80 10.00
FR-149/USM159 repro 10.00
I-142/PTM-6 10.00
I-177 repro 8.50
ME-6D repro 8.50
ME-26 repro 8.50
ME-30 repro 8.50
ME-71 repro 8.50
MN-26 5.00
OS-8 repro 8.50
PP-109-112 5.00
PP-281-282-484 repro 5.00
PP-804 5.00
PP-846 4.00
PP-867-868-869 4.00
PP-1175 5.00
R-105/ARR-15 repro 15.00
R-108-109-110 7.50
R-140 (HRO-5) repro 10.00
R-220/URR-29 12.00
R-274/SX-73 repro 12.00
R-274A/SP-600 repro 12.00
R-388 (51J3) repro 10.00
R-389 repro 17.00
R-390 repro 15.00
R-390A repro 15.00
R-391 repro 17.00
R-392 repro 15.00
R-484/APR-14 repro 15.00
R-520 (MIL-Zenith Transoceanic) 7.50
R-648/ARR-41 repro 15.00
R-744/PR repro 12.00
R-901/GR repro 12.00
R-1051/UR repro 45.00
R-1490/GRR-17 repro 35.00
RT-66-67-68 5.00
RT-70 5.00
RU-19 5.00
SP-600-JX repro 10.00
SX-28 repro 7.50
618T1-2 Collins repro 35.
T-195/GRC-19 repro 20.00
T-278-416 7.50
T-368 O.I. repro 8.50
T-368/TN-339 repro 15.00
TCS-12 repro 12.00
TS-148 repro 10.00
TS-352/ME-9 repro 8.50
TS-382 repro 10.00
TS-403/URM-61 repro 12.00
TS-505 repro 10.00
TS-510/USM-44 repro 12.00
TV-2, -7, or 10A: $10 ea.
ZM-11 repro 8.50
ZM-30/URM-90 repro 10.00

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TEKTRONIX partial repros:

TEK G	$7.50	TEK H	$7.50
W	7.50	1A1	$10.
1A2	8.50	1A4	8.50
1A5	8.50	130	7.50
131	7.50	132	7.50
453	$25	545A	$17.
545B	$17	547	$18.

Other Tektronix & Hewlett-Packard Manuals available. WRITE for quotation!

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ARMED FORCES CROSS INDEX OF ELECTRON TUBES, 8/52; older mil-tubes, 120 pp. $12.50

- - - - - - - - - - - - - -

TI SEMICONDUCTOR MEMORY BOOK (1975), 272 pp. $1.00

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A USERS GUIDE TO ARC CORP RECEIVERS--by M. Tauson; ARC-5, ARC-type 12 etc, $4.

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LOW & MEDIUM FREQUENCY SCRAPBOOK. 7th Ed., $17.95

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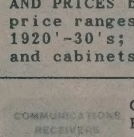
WESTERN ELECTRIC TUBE CATALOG reprint "expanded"; 30+ type's data w/curves + "obsolete" lists. 247 pp $15.95

ANTIQUE RADIO BOOKS

ANTIQUE RADIOS, Restorations and Price Guide by D. and B. Johnson. Good general book with many clear pictures and info on old radio theory, repair, and cabinet clean-up. Also common tube list, price guide, etc. 8.5x11, 98 pages; $14.95

SAGA OF THE VACUUM TUBE by Gerald F.J. Tyne. Reprint of 1946 classic which reaches further back in time than Stokes' book and proceeds on more techno-scientific perspective. Many pictures; 5.5x8.5, 494 pp. $15.95

GUIDE TO OLD RADIOS: POINTERS, PICTURES, AND PRICES by the Johnsons. Descriptions, price ranges, pictures of 3500+ radios of 1920's-30's; some broadcast history, speakers and cabinets. 8 color pages; 192 pp. $16.95



COMMUNICATIONS RECEIVERS, 2nd Edition by R. Moore; expanded with more info and pictures of receivers from the 1932 to 1981 period. 115 pp.; 3#. $17.95

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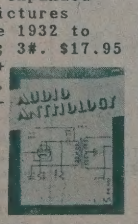
AUDIO ANTHOLOGY, VOL. #1, C.G. McProud, editor; articles from Audio Engineering magazine over May 1947 thru December 1949. Circuits of 6AS7, 6V6, VT-4/211. 300A/B, etc. 124 pp, 2#. $16.95
*VOL. 2: 1950 - 1952; 2#, $16.95



QST MAGAZINE, ARRL's monthly publication, $3

ARRL BOOKS

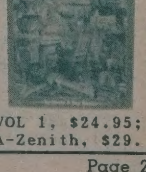
1992 RADIO AMATEUR'S HANDBOOK * $25.00 *

OPERATING MANUAL, 3rd Ed, $15.00
FIRST STEPS IN RADIO, $5.00
COMPLETE DX'er, $12. LOW BAND DX $10
200 METERS & DOWN, $8.00
ANTENNA BOOK, $20. YAGI ANTENNA, $15.
ANTENNA COMPENDIUM #1 from QST, $10.
NOVICE ANTENNA NOTEBOOK, 1st Ed. $8.
WFIB's ANTENNA NOTEBOOK, 1st Ed. $8.
QRP NOTEBOOK, 1st Ed. $6.00
HINTS & KINKS $8. LOGBOOK, $3.50
ARRL ELECTRONICS DATA BOOK, $12.00
SATELLITE EXPERIMENTERS HANDBOOK, $20
SOLID-STATE DESIGN, $12.00

VINTAGE RADIO

* * * * * * $11.95 EACH:

VINTAGE RADIO 1887-1929, pictoral of early years; Softbound; 2#.
A FLICK OF THE SWITCH 1930-1950, sequel to VR with TV; softbound.
1921-1932 RADIO COLLECTOR'S GUIDE, lists 9000 radios; no pictures.
MOST-OFTEN-NEEDED-1926-1938 RADIO DIAGRAMS, 600+ old schematics; 2#.



THE COLLECTOR'S GUIDE TO ANTIQUE RADIOS by M. & S. Bunis; another guide on 5000 radios (1920-1959) with 400 quality color pictures! 8x11.5, 175 pp. $16.95

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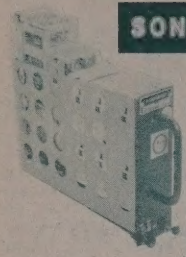
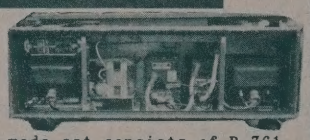
RADIO MANUFACTURERS of the 1920's by Douglas. VOL 1, $24.95; *VOL 2, $29. *VOL 3, RCA-Zenith, $29.

SONOBUOY RECEIVER



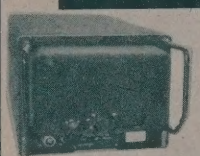
R-1170/ARR-52A VHF RECEIVER 162.5-173.5 MHz AM, FM and video using 31 crystal-controlled channels. Solid-state sonobuoy receiver consists of five plug-in modules; 26 MHz 1st IF, 5 MHz 2nd IF. Conversion possibilities for 2 meters, VHF weather, satellite TV, etc. (See Oct '74 CQ Mag.) Requires external control and 18 VDC. 7.5x2.5 x10, 9 lbs. Used, ~~$29.50~~ $24.95; SCHEMATIC, $4 w/set. MANUAL, partial repro, $15 w/set.

1 KW HF RADIO SET



AN/TRC-75 1 KW HF RADIO in CY-2600 case for vehicle mount; 2-29.999 MHz AM-SSB-tone 400 W, 1 KW nominal PEP. Collins made set consists of R-761 receiver and T-730 transmitter listed below. C-3341 control (p 16), CU-749 antenna coupler, C-2848 coupler-control, AM-2306 amplifier, CV-786 converter-oscillator, RF-111 load coil (p 4) plus built-in wattmeter. We will also include manual copy and PP-2352 power inverter (p 10) which provides 115 V 400 Hz 3 O for the set from 28 VDC 110 amp input. 20x48.5x30.5, 375 lbs sh wt.
Used-complete, not tested, ~~$1200.00~~ $750.00
AN/TRC-75 without manual or PP-2352, $650.00

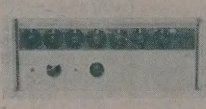
T-730 1 KW POWER AMP



T-730/TRC-75 TRANSMITTER, functions as 1 KW PEP (400 W AM-SSB) 2-29.999 MHz linear power amp when used with R-761/ARC-58 receiver which supplied 200 MW PEP input drive. Uses three 4CX250 tubes in P-A; tuned by servo amplifiers and motors. Requires 115 VAC 400 Hz 3 O for power supply with outputs 2000 VDC 500 ma, 400 VDC, 27 VDC, 6.3 VAC, -40 to-80 VDC and 115 V 400 Hz 1 O for servo motors. With tubes 2/6CL6, 5896, 3/4CX250. C-3141 control required for channel selection. 7.8x10.3x24, 55 lbs. Used, ~~$350~~. $225. SCHEMATIC for T-605, $6 with set purchase.

R-761/ARC-58 RECEIVER, companion receiver and exciter to T-730. Requires 115 VAC 400 Hz input. 7.6x10.3x23.5 55 lbs sh. Used, ~~$300~~. $175. SCHEMATIC, $6 w/set purchase. C-3141 CONTROL for frequency select (pg 16), used $29.95
CONNECTORS for above, $5 each w/set purchase

FLUKE SYNTHESIZER



FLUKE 6160A/AC FREQUENCY SYNTHESIZER. 40 to 160 MHz in two ranges. Frequency set by seven decade switches: 40-80 MHz band in 5 Hz steps; 80-160 Hz band, 10 Hz. Output 0.3 to 1.0 V-rms (+3 to +13 DBM). BNC connections for Input, RF Output, 5 MHz Input & Buff 5 MHz Output. Requires 115 VAC 60 Hz; no further info. 7x19x22, 37# sh. Used-reparable, $250.00

R-19/ARC 4AIRCRAFT RECEIVER, 118 to 148 Mhz continuously tuneable. No dial; designed for remote tuning with spline shaft. IF-15 Mhz. With tubes 9002, 3/9003, 14A7, 2/14R7, 14F7, and 12A6. Uses accessories similar to ARC-5 Series. Requires 250 VDC 60 ma and 24 VDC. 6½x5x11⅝; 13 lbs. sh. Used, $18.95

R-11A RECEIVER, 190-550 Khz. Similar to R-19 but has 85 Khz IF and tubes 2/14A7, 14S7, 14R7, 14F7, and 12A6. Used, $17.95

T-363/ARC XMITTER, 132-148 MHz AM, 5-channel xtal-control; companion to R-19. Used, $20.

100 TO 225 MHZ AMP

AM-912/GRC AMPLIFIER-MULTIPLIER plug-in for T-302/TRC transmitter; covers 100-225 MHz FM @ 100+ watts using 4X150A tube. Controls Grid & Plate Tune and Amp Output Coupling. Requires +750 V, 200-350 V screen, and 6.3 V filament; with schematic. 12x6x14, 24 lbs. Used, ~~$80.50~~ $59.50; GOV'T-RECOND., $100.00
AM-1180, as above but 50-100 MHz, used, $65.
AM-915, 225-400 MHz; 4X150A, 4X150G. $85.00
AM-1178, 400-600 MHz; 4X150A, 4X150G. $75.00
AM-2537, 790-915/ 840-925 MHz; two 5876, $95

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AM-914/TRC AMPLIFIER-CONVERTER, plug-in for R-417 receiver in 225-400 MHz range. Continuous tuning of RF and oscillator; 30 MHz IF. Modify and use as down-converter! With tubes 5670, 4/6J4. Requires 150 VDC & 6.3 V. 7.5x6.5x9.5; 15 lbs. Used, $35.
AM-1179/GRC, 50 to 100 MHz, used, $39.50
AM-913/GRC 100 to 225 MHz, used, $45.00
AM-1177/TRC, 400 to 600 MHz, used, $44.50
AM-3203A/TRC, 1.35 to 1.9875 GHz, $49.50

ARC-45 UHF TRANSCEIVER

RT-295/ARC-45 UHF TRANSCEIVER designed for light aircraft and employs 12 preset channels in the 225-399.9 MHz AM range; 1 watt minimum transmitter output. Receiver IF's: 23.49-24.39 MHz and 2.98 MHz. Audio out 50 mw into 150 ohms. Uses 2/5893 tubes in PA, 5675 as doubler, 7077, plus 28 other miniature and sub-mini tubes. Requires 150 VDC 115 ma, 300 VDC 130 ma, 27 VDC 1.7 amps. 5.3x8x14.3, 19 lbs. Used-no crystals $75.00; Schematic $5.

SB-328/AR CHANNEL SELECTOR, for ARC-45; 12-position channel select, tone button, volume, and 2 pilot lights w/327 lamps. 2.5x5.8x4.3, 3 lbs. Used $5.95; Unused, $9.95

ARN-30D VHF RECEIVER

R-1021/ARN-30D VHF RECEIVER covers 108 to 126.9 MHz AM in 100 KHz steps (190 channels); originally part of air navigation system. 1st IF 11.7-12.6 Mhz; 2nd 1.7 MHz. Electrically turned crystal turrets with frequency displayed on side panel. Adjustable squelch; 300 ohm audio output. 50 ohm input impedance; BNC connection. Tubes 5718, 5840, 5896, 4/5899, 5902, 6021, 6112. Requires 28 VDC 1.8 A and 260 VDC 85 ma. 5.5x11.4x4.6, 10#. Used, $29.95

C-3436/ARN-30D FREQUENCY CONTROL, used, $15.
Operator MANUAL f/ ARN-30D, part-repro $7.50

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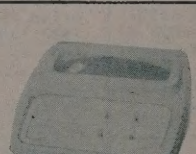
AN/ARC-44 RADIO SET, 24-51.9 MHz FM; includes RT-294 Tx-Rx, DY-107 28 VDC dynamotor, SB-327-329 controls, SA-474 switch, & MT-1267-68 racks; 30 lbs sh. Used, $150.00

PHONE PATCH



VOX-A-PHONE, functions as telephone patch using a voice-activated switch to key a transmitter and can be used as "hands off" remote mic in NORMAL mode.
In effect permits relaying of telephone conversations via radio and vice versa. Connects to mic and speaker jacks of a transceiver and telephone handset is placed in unit's cradle and is acoustically-coupled to transceiver. Telephone volume automatically controlled; transmit volume manually.
3 minute timer starts upon patch connection and tones when 20 seconds remains in patch period. Some jack re-wiring may be required. 4x11x11, 6 lbs sh. #VOX-PHONE, NEW, $55.00

CEI VHF-UHF RECEIVERS

CEI/WATKINS-JOHNSON VHF and UHF RECEIVERS, compact rackmount VHF sets cover 30-300 MHz AM-FM-CW in bands 30-90 and 90-300 MHz while UHF sets cover 235-1000 MHz in bands 235-500 and 490-1000 MHz. All have Tuning and Signal Strength meters. RF-VIDEO-AUDIO GAIN controls, and BFO. Nuvistor/transistor electronics. 3.5x19x17.5. 30# sh. Used-operational, but not to specs:
903-VHF, 50 or 300 KHz IF width. $195.00
905-VHF, 20 or 300 KHz IF width. ~~$285~~. $215

960-VHF. 20 or 200 KHz IF width. $220.00
975-VHF, 50/300 KHz-3 MHz IF width. $250.00

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702-UHF. 50 or 300 KHz IF width. ~~$300~~. $250.
775-UHF. 100/500 KHz/4 MHz IF. ~~$360~~. $295.
MANUAL for CEI-775, partial repro. $25.00
MANUAL for CEI-905, partial repro. $35.00

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RS-111 (AN/URR-52) PANORAMIC RECEIVER, 30-1000 MHz in bands 30-90, 90-300. 235-500. and 490-1000 MHz: F bandwidths 20-75-300 KHz plus CRT display. Requires 115/230 VAC 60 Hz: 5x19x17.5. 50 lbs sh. Used, $595.00

CEI RX ACCESSORIES

CEI DRO-302 COUNTER. 6-digit counter used with above VHF receivers having 21.4 MHz IF's to indicate received frequency. Can also be used as 10 KHz-300 MHz frequency counter. Controls PRESET On-Off. DAFC Off/ Fast/Med/Slow. RANGE 10 KHz-30 MHz/30-300 MHz; rear BCD output. Requires 115 VAC 60 Hz; 7.9x3.75x15.5, 14 lbs sh. Used, $135.00

CEI SPECTRUM DISPLAY MODULE with 3"Wx1"H CRT; use with 21.4 MHz IF receivers to display 3 MHz spectrum. Controls for Intensity. Focus. Sweep Width. Center Freq. With nuvistors 5/7587. 3/6CW4 plus transistors. Requires 115 VAC 50-400 Hz. 7.8x3.3 x15.5, 12 lbs sh. Used-reparable. $125.00

SM-1622 SIGNAL MONITOR. similar to above except used with CEI-112 microwave receivers having 160 MHz IF. Sweep width 20 MHz; sweep rate 5 to 25 Hz. Used-reparable. $135.00

RACK MOUNT CASE for two CEI displays; can be modified for one DRO-302 instead of two displays. 3.5x19x17. 9 lbs. #CEI-RMC, used $20.

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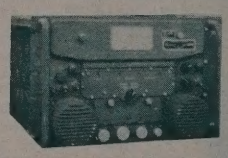
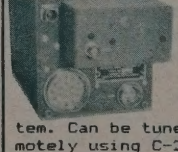
225-399.9 MHZ RECEIVER



R-278 RECEIVER, 225 to 399.9 Mhz AM; crystal frequency control for 1750 channels in 100 Khz steps; ten preset channels. Audio freq response: 200 Hz-20 Khz (wide), 200-5 Khz (narrow). Has AVC, squelch, and 44 tubes; unitized chassis, rackmount. 12¼x19½x20, 115 lbs sh wt. Used, less guard channel, reparable, ~~$125~~. $100
MANUAL, partial repro, $15. Schematic, ~~$2~~.50



R-836/ARN-59 DIRECTION FINDER RECEIVER, same as Aircraft Radio Corp R-30A DF receiver used in light aircraft. Covers 190-1750 KHz in bands 190-400, 400-840, and 840-1750 KHz; replaces AN/ARN-6 radio compass system. Can be tuned using push-on knob or remotely using C-2275 control box (not available) and MC-215 spline. IF 142.5 KHz; with tubes 2/5718, 5896, 5/5899, 3/5902, 2/6021, 6112. Requires 24 VDC 1 amp, 110 VDC 90 ma, 125 VDC 20 ma; also 13 V 100 Hz for loop selsyns if used for DF. Voltages originally supplied by DY-107 dynamotor (not available)
4.5x4.5x10.3, 9 lbs sh. Used, $28.95
OPERATOR's MANUAL, $3. SCHEMATIC, $2 w/set.

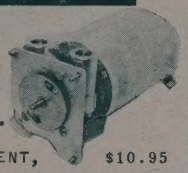
ID-637/ARN 3" dia COMPASS IND(CATOR, $8 w/set.

REDUCED

PIEZO CRYSTAL

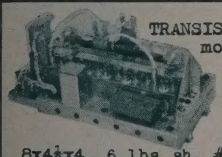
PIEZO CRYSTAL CYLINDER for use in pressure or sound experiments. These unusally large 3.4" dia X 5" long crystals produce a high potential when subjected to pressure change caused by weight and temperature change. When audio frequency is applied crystal responds from 1.5 Khz with a peak at 12 KHz (3500 ohm impedance) and a peak at 17 KHz (230 ohms). Dips and peaks occur throughout the audio and ultrasonic range. Cylinder wall 0.4" thick; can be sawed with difficulty into smaller sections. Originally used in sonar system; may have minor chips. 7 lbs sh. #P-XTAL, used. $27.00

VFO - EXCITER - MOD



VFO-MASTER OSCILLATOR FROM THE T-195 TRANSMITTER; GENERATES FREQUENCY OF 1.5 TO 3 MHZ. HAS 5749 OSCILLATOR TUBE AND 5749 BUFFER-AMP TUBE. WITH ½x3/16" DIA. SHAFT. 2⅛x3¼x7, WT: 5 LBS. VFO/T-195, REMOVED F/EQUIPMENT, $10.95

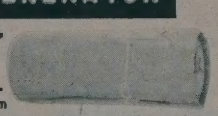
MODULATOR for T-195 provided audio to modulate PA & supply sidetone; 300 & 3500 Hz bandpass. W/tubes 2/12AT7, 5726, 5814. LESS 2/4X150D. 8.5x6 x4.3, 7#. #SK-MOD/T-195, $22 #T-195/MOD, above LESS 4X150's & sockets $10



TRANSISTORIZED GUARD RECEIVER f/ modified RT-178/ARC-27; one channel in 238-248 Mhz range. IF's 25.1/3.45 Mhz; has detector, noise limiter, AVC, 4/2N1745 transistors, and 25.1 Mhz filter. 8x4½x4, 6 lbs sh. #5821-953-9695 used $12.95

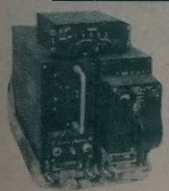
AM-777 AMPLIFIER DETECTOR, p/o RT-128A/ARC-21 2-24 Mhz transceiver; IF's 1800/300 Khz. Slug tuned; w/tubes 4/5636, 3/5896 3/5899, 3/6021, 5840, 5902, and 5719. Schematic included. 13¼x2x3½, 5 lbs. Used, $15.00

HYDROGEN GENERATOR



M315B HYDROGEN GENERATOR, used to provide hydrogen for 4' balloon p/o CRT-3 Gibson Girl rescue radio. Has 1200 grams of calcium hydride crystals in long can which, when immersed in water, produces hydrogen gas. (EXTREME CAUTION must be exercised in the performance of this process because hydrogen gas is dangerously flammable and the liquid calcium by-product is very caustic!) The M315B cans are dented; suitable only for the recovery of calium hydride. 11.6"x4.3" dia, 4 lbs sh. Unused-dented, $6.95 ea; 2/$12.00 INFLATION TUBES for M315B, $3.00 ea

ARC-73 AIRCRAFT RADIO

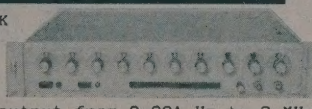


AN/ARC-73 AIRCRAFT RADIO SET, consisting of T-879 transmitter, R-1123A receiver, C-4074 control, and MT-2699 rack. T-879 covers 116 to 149.95 MHz AM in 50 KHz steps (680 channels) with 25 watt output to 133.95 MHz and 20 W minimum above. Sidetone level 100 MW into 500 ohms; mic impedance 100 ohms. R-1123A covers 108 to 151.95 MHz in 50 KHz steps (720 channels); Sensitivity 3 uv; audio output 500 ohms. Both have antenna input impedance of 52 ohms and require 27 VDC (7.3 amp max. transmit) power. Both utilize tubes and transistors. C-4074 control sets frequency on mechanical counter and has Volume, Squelch, and On-Off functions. Mating connector not available. MT-2699 rack is unused but supplied chassis connectors are not wired-in. Units are in excellent physical condition but appear to be "overhauled" but "rejected"--repair required! Operator's manual and schematics included; 9.5x8.5x16, 40 lbs. Used, $149.50

TELE COSTER I

TELE COSTER I TELEPHONE METER, cost-effective device for the individual or business who wants to keep "tabs" on the length and costs of long-distance and, perhaps soon, local telephone calls. Initial and secondary rates/period are programmable using the numeric plus 6-function keyboard. LED display shows cost/period plus elapsed time hr-min-sec. Also display flashes 15 sec before rate change and has X60 speed-up time so maximum acceptable charges could be determined before the call. In sturdy, handsome beige plastic case. Requires 115 VAC 60 Hz; 2 lbs. NEW w/info $8.

ROCKLAND SYNTHESIZER



ROCKLAND/WAVETEK 5100 FREQUENCY SYNTHESIZER, provides highly stable digitally-synthesized output from 0.001 Hz to 2 MHz by setting ten dials on front. Fixed output 1 V P-P or variable 10 V P-P which may be attenuated 0 to 85 DB using push button attenuator. Level control provides 0-10 DB attenuation relative to the attenuator. Reference output 1 MHz squarewave or 8 MHz pulse waveform with TTL levels capable of driving 30 standard TTL loads. May be locally or remotely programmed in binary or BCD. Utilizes mostly 74-Series IC's. Input and output impedances 50 ohms; BNC connections front and rear. Requires 115/230 VAC 50-60 Hz; 3.5x19 x13, 25 lbs. Used-reparable w/book, $295.00

VASCAR II SPEED TRAP

VASCAR II DISTANCE/TIME COMPUTER-INDICATOR originally used by police agencies for clocking speed of vehicles while the police car was in motion or stopped. Speed of unknown vehicle determined by referencing a pre-measured distance or the distance can be set while both vehicles are moving. VASCAR can determine speed of vehicle in front of, behind, in opposite direction of, or across the path of the police car. Displays average speed in tenths of miles per hour upto 199.9 MPH. Computer module consists of four circuit boards with 5 VDC logic and transistors. Operates from 12 VDC 3.4 amps. Includes computer module, control/indicator module with cable and plug, power plug, and manuals. "AS-IS" transducer is now included. 2.5x13.5 x7.3, 18 lbs sh. Used-not calibrated, $60.00

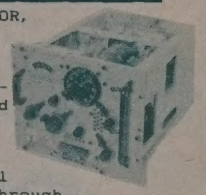
INTERCOM / MONITOR

ONE-TO-ONE INTERCOM/MONITOR, low-cost wire-type set allows someone to listen to kids, a sick person or pet from another room. Consists of of master control with ON-OFF, push-to-talk switch, and audio electronics; a remote control with speaker only; and 20 ft wire. Requires 9 VDC transistor battery (not supplied); control size 4.9x2.5 x1, 3 lbs sh. #CH-MON, unused, ~~$7.95~~ $6/set

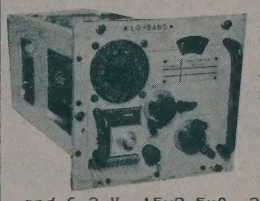
GRAB BOX ASSORTMENT of used and unused manufacturers and government surplus electronic parts such as assemblies, motors, coils, transformers, chokes, circuit boards, capacitors, resistors, and other usable items. Packed in 50 lbs cartons: $9.00 ea or 2 cartons for $15.00 Shipped via UPS with freight charges varying from $6 to $24 per carton. Allow for charges!

GRAB BOX is good "filler" to take advantage of motor freight 150# minimum weight rates!

602-999 MHZ OSCILLATOR

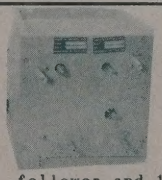


AM-1957 AMPLIFIER-OSCILLATOR, 601.5 to 999.5 MHz plug-in for T-893/GRC-50 transmitter. Utilizes three 7289 tubes as 651-1049.5 MHz oscillator, -50 MHz mixer and 15 watt power amp. Directional coupler detects Reflected Power and provides monitor output for external meter circuit. RF passes through duplexer having identical receive/transmit sections each with two cavities. (Receive signal routed to separate AM-1955 receive module.) Transmit RF then moves to second directional coupler which detects Reflected Power also with output for external meter. Wavemeter samples output RF for frequency measurement using calibration chart. Cathode current of each 7289 regulated by external 250 VDC (not supplied). Requires 115 VAC 60 Hz, 645 VDC, 650 VDC, 800 VDC, 5.7 VAC 5.5 VAC. Schematic and info included. 8.9x11x16, 36 lbs sh. Used-clean, ~~$135~~. $99.50



AM-1955B/GRC AMPLIFIER CONVERTER used with R-1148A/GRC-50 receiver for 600-1000 MHz band; 60 MHz IF. Uses 4037A/2C40A tube as oscillator; also 5654, 2/5842. With wavemeter and calibration book. Requires 150 VDC and 6.3 V. 15x9.5x8, 30 lbs sh. Used, $45.

TMC OSCILLATOR



AO-105 OSCILLATOR ASSEMBLY, part of master oscillator in TMC xmitter. Consists of 80° C crystal oven with 6AB4 oscillator tube producing 2-4 MHz. Output fed thru 12AU7 cathode follower and 100 KHz oscillator. Also uses 6AH6 reactance tube to "lock" oscillator frequency via 6 VDC input from an external synthesizer. Tune shafts adjust capacitance & inductance to set freq.; rear trimmer for 100 KHz adjust & BNC output conn. Requires +160 V & 6.3 VAC; 8x8.6x11, 19#. Used. $20.

SPEECH AMPLIFIER

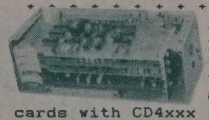
AM-2306/TRC-75 AUDIO AMPLIFIER ASSEMBLY with AM-476C audio amp which processes 150 ohm receive and 5 ohm mic inputs into 150 ohm phone audio during Rx-Tx operations. AM-2290 amp provides 2 watt 30 ohm : 600 ohm speaker output. Requires 28 VDC input; 4.4x4.5x10, 6 lbs. Used w/schematics & mating plug, $21.95

PHANTOM ANTENNA

GP PHANTOM ANTENNA as used with WW-II 350-9050 Khz aircraft ransmitters to monitor RF at remote point. Has 3½" rd 0-10 RF ammeter, 10 KV 0.0002 and 0.0003 mf G2 mica xmitting capacitors, 12-nickel-plated terminal posts in 14x12x9¼ aluminum case w/hinged top; 22 lbs. Unused ~~$35~~ $28.

DETECTOR BOX

DT-546/FSS-9 VIBRATION SIGNAL DETECTOR, part of gov't intrusion system has piezo crystal detector, circuit board with gain adjust, & terminal strip. We do not know how it works but it is a nice clean 5.3x2x4.8 steel box if nothing else; 3 lbs sh. Unused, $5.95



R-1861/FSS-9 DATA RECEIVER p/o intrusion system handled serial data from a remote data Xmitter (not available). Has four PC cards with CD4xxx IC's, one LED, reset button, and Blue-Line connector; Mid-1970's mfg.; no further info--experimenter item! 2.8x8x3.8, 4 lbs sh. Used AS-IS, $14.95

Control Boxes Filters Indicators Tuning Units Amplifiers

ALARM BELL
OPERATES FROM 24 VOLT D.C.
SIZE: 4⅝x4⅛x2½
WT: 1LB #561-3
NEW $1.95

ANGLE INDICATOR, clamps to 2.5" dia pipe; metal ball in liquid shows 0-60° tilt on 4" curved scale. #AL-060 NEW $4

RF CHASSIS f/ Bendix RA-18C 108-136 Mhz receiver; 7-gang capacitor tunes ant-coil RF grid, RF plate, mixer grid, 1st osc-quadrupler, 1st osc-amp, & cathode follower input. Tubes 2/5654, 5670, 5725; requires 6.3-12.6-108-250 VDC. 3½x3⅜x10⅛, 5 lbs. W/ schem. #RF100-RA18 NEW $10.

TX MONITOR

CARRIER MONITOR, provided DC and audio currents for remote check of xmitter operation. Units LESS 3 pf 15 KV vacuum capacitors but still good parts value including 600 VCT 35 ma transformer; tubes 0A2, 6AL5, 6J6, 6X4; 600:600 ohm AF transformer, DPDT & SPST toggle switches two 49 pf air trimmer caps, etc. 6x8.5x6.3, 12 lbs sh. #CAR-MON-87, unused, $5.95

#CAR-MON/VC, above with vacuum capacitors, $14.95

COLLINS FILTERS

CW FILTER FL-4 for Collins 51S1 receiver; F =500.8 KHz Made for Collins by McCoy Electronics. 1x1.8x0.8; #293-0928, unused, $30.00

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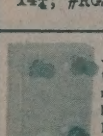
MECHANICAL FILTER #F250-A85 (526-9049) 250 KHz for RT-311/ARC-38. Unused, $14.95

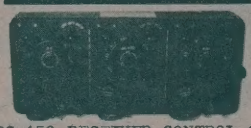
FIRE CHEX AUTO SHUTDOWN DEVICE automatically disconnects a vehicle's electrical system in a collision. Also use of its 80" spline control allows Fire Chex to manually "shutdown" electrical systems making it more difficult for a thief to steal a vehicle. With spline, fused line, mount brackets, info. 4.5x4.5x1.8 6 lbs. #FI-CHX, NEW $5.95

SODECO 6-DIGIT COUNTER electrically resettable; 60 impulse/sec count coil and reset coil both 24 V DC 83 ohms. 1-7/8x15/16 x4¼; #RG266, NEW, $8.95



JB-60A JUNCTION BOX two U-106 LINE terminals, jack for KEY, & position for EE-8 field phone. P/o GRC-26D; 2.8x 3.8x1.5, 2#. Used, $3.00

ARC-5 BOXES



BC-450 RECEIVER CONTROL f/ tuning upto 3 receivers. W/dials 190-550 Khz, 3-6 Mhz, & 6-9.1 Mhz; CW-off -MCW switches, volume controls, and phone jacks. 9½x5½x3, 3 lbs. Unused $8.

BC-496 DUAL RECEIVER CONTROL for SCR-274/ARC-5 receivers; tuning dials for 3-6 and 6-9.1 MC, volume, etc. 2 lbs sh. Unused $7.95

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FT-225/MT76 RACK f/ MD7, $8.
C-22 RECEIVER TUNE CONTROL, 108-136 MHz; used, $8.00
BC-231 CONTROL f/BC-229 Rx, aluminum or black; used $8

FT-384

FT-384 TEST ADAPTER for using voltmeters to align BC-603/683 (SCR-508/608 receivers' IF-RF amps & oscillator. Plugs into BC603/683 rear; has switch DISC-ALIGN-CATH-BATT & 72" battery cables. Connector also fits BC604/684 xmitter 2x5x3.1, 4#. Unused, $18.95

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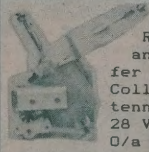
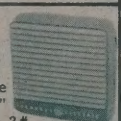
CONNECTOR, fits BC-603/683, BC-604/684; not original #. #DPD-A32C2-33S-2L, used $9.

BC-366 JACK BOX switch "Comp-Laison-Command-Inter-Call", Increase Output pot, 2 phone jacks. 3.3x4.8x3, 2#. Unused $4.95



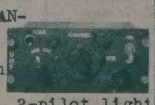
SPDT VACUUM RELAY ASSEMBLY antenna transfer relay from Collins 180L3 antenna tuner; coil 28 VDC 38 ohms. O/a 5x6x2.3, 3#. #K712/180L3, used, $19.95



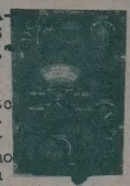
GENERAL ELECTRIC MOBILE SPEAKER, 4.5" dia 3.2 ohm cone in 5x5x2.8 plastic enclosure Designed for 3.5" wide clip mount; 3#. #GE-SPK-GR, gray, used, $7. #GE-SPK-BR, brown, used, $8

SB-327/ARC CHANNEL SELECTOR 24-51.9 MHz FM in 100 KHz steps on 3-digit counter; used with RT-294/ARC-44 Tx-Rx. 3¾5.8x4.5, 3 lbs. Used $15.

SA-474/AR SWITCH BOX has mini-toggles 4/DPDT, 1/DPST and 2 pilot lights w/327 lamps. 2½x5⅝x2⅛. Unused $6.



SB-328/AR CHANNEL SELECTOR for ARC-45; 12-pos channel select, tone, volume, 2-pilot light w/327 lamps. 2½x5⅝x4½, 2 lbs. Unused $10. Used $6.



-A REAL BONANZA- HAS MANY ITEMS YOU CAN USE: 1¼" "tune to max" 300 ua meter; 4-band bandswitch & dial assy; 5-position rotary sw with 1-pos mo momentary; spin crank for tuning with 10-turn pot; volume control w/3-gangs; five 327 lamps; Loop switch (L or R momentary); SPST toggle sw; other parts. Originally tuned R101/ARN-6 (p 4). May have broken wafer switch; 6 lbs. #C423/ARN-6 used $4; 2/$7.

C-38/ARC-5 VHF-MHF CONTROL, Rec A-VHF or Rec C-MHF plus VOL, SENS, PITCH, CW-VOICE, and preset tuning. 9.5x5.5, x3, 3 lbs. Unused, $8.00

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BC-938A VHF-HF CONTROL p/o SCR-274. Buttons A-B-C-D & OFF-1-2; Tone-CW-Voice sw. 3x4.5x3, 2#. Unused, $8.00

****
*MAKE *
MACY'S
*PHONE *
*PATCH *
****

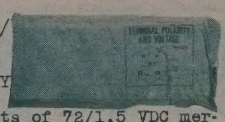
RM-52 Remote Control used for radio and intercom set. Has transformer, mic & phone jacks. Source for Phone Patch project. 7½x3½x5, 5 lbs. Used, $4.

MALLORY INTRUSION ALARM, hang on door knob and set sensitivity. Sonalert sounds when outside door touched. Will not work on steel doors; 9 VDC require #DRS-DC, ~~$7.95~~ $5.

VIBRATORS

VIBRATORS, removed f/equip: VB-8, -9, or -13 $3 ea.
3H6690-15 6 V f/PP-109, $6.
3H6690-16 24 V f/PP-112 $3.
M1503S 24 V for AM-598, $3.
6 VOLT 6-PIN vibrators for

PP-68,	#VIB/PP-68,	$4.
KS5566, 12 V 4-pin,		$3.



BA-398/PRC-25 ARCTIC BATTERY PACK, consists of 72/1.5 VDC mercury cells wired to produce 2.5 V 400 ma and 12 to 15 VDC 1.4 A in cloth bag. 1977 date codes; unused but LV output weak. 6 lbs sh. $3.95 ea; 2/$6.

ADJUSTABLE MOUNT w/four 3# mount pads; Fits 5.1"W x 6.8"-7.8"D unit. Good size for small power supply, amplifer, etc; aluminum, 3# sh. #MT-569A/ARA, unused $3

RUBBER SHOCK MOUNTING	4 lbs	#4	$.45
	6 "	#6	.50
	12 "	#12	.65
	16 "	#16	.75
	24 "	#24	1.00
	35 "	#35	1.25

OTHER WEIGHTS AVAILABLE.

M-399 ADAPTER

M-399 ALIGNMENT ADAPTER for BC-659 transceiver; allows the changing of crystals as well as the alignment of the set without the use of an external meter. Mounts inside the BC-659. 2 lbs. $5.00
M-394 ADAPTER f/BC-620, $5.

ART-13 CRYSTAL CALIBRATOR, provides 50 KHz fundamental using 200 KHz crystal. Also 1000 Hz tone for MCW operation. Tubes 2/12SL7, 12SA7. 6x5x3, 4#. #XCAL-ART-13, unused, $16.

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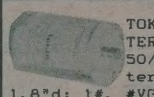
CDA-T CRYSTAL OSCILLATOR, converts 4 xtal-controlled channels to 200-500 KHz range; less xtals, $12.95



TOKIN NOISE FILTER 250 VAC 15 A 50/60 Hz; spade-terminals. 2.6"x 1.8"d; 1#. #VG-215F, NEW $3

POCKET KNIFE

TL-29 ELECTRICIAN'S KNIFE, 2.8"L high quality steel blade and 2.8"L locking screwdriver; Folds to 3.8x0.8x0.6" Th. Plastic sides; Camillus. NEW, $12.95

PRECISION 15-TURN HELIPOT by Beckman, 5K ohm +/-5% & 0.1% linear tolerance. 2.8"x3.3" dia + 1"Lx1/4" dia shaft; 2# sh. #SB-326, unused, $17.95

RECHARGEABLE

GOULD NICKEL-CADMIUM F-CELL BATTERIES, 1.2 V 5 AH; charge rate of 14-16 hours @ 700 ma; 3.5x1.3" dia. #7.0-SC, Used-checked, $2.

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SAFT NICAD PACK, rechargeable 12 VDC 1.2 AH; 2x5x2, 2#. #40197-106, used, $5.95

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12 VDC 500 MAH NICKEL-CADMIUM rechargeable pack; ten AA-cells. 2.8x1.1x2.1, 2#. Diebold #28-20276, used $5.

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BB-451/U SILVER-ZINC BATTERY rated 24 VDC 25 AH; uses four 4-cell blocks. Requires 40% solution potassium hydroxide (not available) as electrolytic. Approx 40 troy ounce of silver per battery. In fiberglass case designed for use with AN/PRC-41/47 radio sets. 7.5x11x4.1, 15 lbs sh. Unused, $195. MANUAL, $7.50

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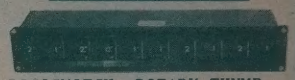
PP-6241 CHARGER for BB-451 (page 10), unused $59.50

COCKPIT LAMP

AIRCRAFT COCKPIT EXTENSION LAMP Type B-7; black plastic lamp on 5.5 ft spring retractable cord and uses standard 2-contact auto bulb. Has dimmer & ON-OFF switch; 2 lbs. Used. $5.95

DIGISWITCH



DIGISWITCH ROTARY THUMB SWITCH ASSEMBLY, ten ganged switches each with 12 numbered positions. Disassemble and use separately or in groups. 1.9x11.5x2.3, 2#. #9-C-402, used, $7.95

OFFSET VERNIER

OFFSET INDICATORS with 20-turn 20K ohm 0.1% linear pot coupled to geared vernier control w/inner dial marked 10-0-10 NAUT MILES (1 turn= 1 mile). Offset shaft 1/2"L x1/4" dia; o/a 3.5x3.5x4.5, 2 lbs. Specify #E-W (East-West) or #N-S (North-South) OFFSET, used, $4.95 each

WAVEMETER

WAVEMETER from AM-1956-1958/GRC-50 Rx/Tx 1350.5-1849.5 MHz FM oscillators; calibration book for tuning CHN #, MAIN TUNE, OUT FREQ, & REC OSC. BNC connections; 3x3x9, 5 lbs. Used, $19.95

TS-268E CRYSTAL RECTIFIER TESTER, measures front and back resistance and back current of IN-21-23-25-26 -78 xtal diodes on 2.5" MA-meter. Requires D-battery. 7.5x4.4x5.8, 6 lbs. Used $16.95; MANUAL, $8.50

8 OHM SPEAKER

LS-445 4" SPEAKER ruggedized 8 ohm 2 watt PM type; 300-7000 Hz response. P/o LS-166 loudspeaker; 3 lbs. Used $7.95

BB-51 BATTERY 6 V. 2.75 hours thru 30Ω lead cells. Dry charge. 1¼x3½x7/8, 3 oz. $1.50

BB-52, same as BB-51 except 36 V. 3 A. thru 1200 ohms. $1.00 ea. BB-208 BATTERY PACK, contains BB-51, 3/BB-52, $3.

MINIMUM ORDER $10.00

PUSH-TO-TEST

PUSH TO TEST INDICATORS WITH MARKINGS ALSO HAVE CLEAR & AMBER LENSES

KORRY MFG., ALL UNUSED.

KORRY 260 PUSH-TO-TEST INDICATORS, DOUBLE LAMPHOLDER WITH MINIATURE BAYONET BASES. 1 1/2"WX 7/8"HX2 1/2"D. NEW. CHOOSE FROM THESE LENS INSCRIPTIONS:

28 VDC, AMPLIFIER POWER, PHASE B POWER. $1 ea, 3/$2.

KORRY 260 indicators with rocket launch-related inscriptions: 400 CPS DRIFT TIMER, 11 C HEATERS THERMOSTAT, HYDRALIC ACTUATOR TEST POWER, HEATERS 1-2-3, COOLANT VENT VALVE, 1220 PSI SPHERES PRESSURE SW, STBY HTR COMMAND, SET PRESSURE SWITCH, LOX VENT VALVE OPEN, CENTER, 280 VA. Price: $.75 each, 4 for $2.

LAMP HOLDERS FOR 327 LAMPS 1/2" HOLE MTG. FLAT TOP LENSE 3/8 DEEP,

Specify: WHITE LENSES numbered 1 to 9 (#2 & #8 sold out) or YELLOW "MAX" LENS. #6210-617-0934, 39¢ EA.

TINY 28 V NEON INDICATORS, 1-3/8" long X 3/8" dia; NEW
#3495 clear lens w/"B" 3/$1
#3496 " " w/"7" 3/$1

SUB-MINIATURE NEON PILOT LIGHT with 5/16" dia clear jewel. Base is receptacle for three 1/16" pins in triangle pattern. Mounts in 3/8" dia hole. O/a 1.4" L; includes neon bulb. #PIL007, $.35 ea; 4/$1.00

MINI PILOT LIGHT with #382 14 V T1-3/4 bulb; 7/16" dia "cap" lens fits in 3/8" dia hole, 1.3"L. Specify RED or WHITE. #PL-382, used, $.50

PILOT LIGHT for single contact mini-bayonet bulb. Flat clear lens 1/2" dia. O/a 2.3" long for 3/4" dia hole. #PIL-FCLR, $.60 ea

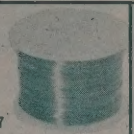
DIALCO PILOT LIGHT for single contact mini-bayonet bulb; 1/2" dia raised flat red jewel. O/a 2.3"L; fits 1/2" dia hole. #0772, $.65

PILOT LIGHT like above, but cept curved red jewel and fits 5/8" dia hole. #386-1179, unused, $.70 ea

LARGE DIMMER PILOT LIGHT f/ double contact bayonet bulb. 1" dia smooth white jewel. O/a 3"L; fits 1" dia hole. #504-1632, unused, $.75 ea #1632-A, AMBER jewel, $.80

PRESS-TO-TEST INDICATOR, candelabra screw base; 1" dia red jewel. O/a 3.5"L & fits 1" dia hole. DIALCO #VM-106-431, unused, $1.95

COPPER MAGNET WIRE for coil winding:



#W-MW-32, 32 AWG 8 lbs spool, $17

ESSEX 37 AWG MAGNET WIRE, 2 lbs/spool; approx 5K ft. #61211FQ, NEW, ~~$10.95~~ $8.50

LIGHT INDICATOR FUSEHOLDERS f/3AG fuses; 1.6"D behind panel. O/a 2.9"L; used: #FU-HKX, 22-33 V amber, $2. #FU-HKL, 115 V, clear $2.50

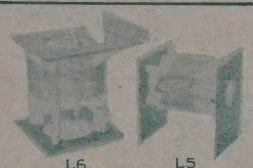
INDUCTORS

FERRITE POT CORE INDUCTORS, PC mount; 7/8x3/4" dia. NEW. 123-177 mH, #NV243, $1.50
600 mH, #404-3-2, $1.50

TELEPHONE PICK UP COIL used in modem data coupler; no specs. 5/8x1 3/8 dia #403-4 $1

COMMAND XMITTER ANTENNA COIL for 5.3-9.1 MHz range. 24 turns wire around 2" dia X 3" ceramic form; with mount brackets but no contacts. #6035MB $6.

RF MASTER OSCILLATOR COILS
#T53/9032, p/o T-22/ARC-5 7-9 MHz xmitter; $4.00
#L101/ART-13, ceramic 2"H x 1.6"dia base. $4.00



L6 L5

#L6/RF111 COIL, 30 uH; 13 turns #8 silver-plated wire in 6" di coil. Form notched for 4 more turns; fiberglas ends. O/a 8x7.5x6.5, 4 lbs sh wt. Used, ~~$12.95~~ $9.95
#L5/RF111 COIL, 15 uH; 12 turns #8 wire in 3.75" dia coil. 7.3x6.5x4.5, 4 lbs sh wt. Used, ~~$11.00~~ $8.95

TUNER KNOBS

#TK-2392 TUNER KNOB, 2.3" dia plastic w/brushed aluminum insert and set screws; has nice "feel." $2.50

#TK-ROB2 TUNER KNOB, 2" dia plastic with "chrome" trim and set screws. $1.75

ARMY SPIN KNOB, retractable crank f/beveled top-screw shaft. 1.5" dia; for RT-70 or GRC-106. #2313, NEW, $5.

AUDIO KNOB SET five aluminum 0.7" dia x0.8"h ribbed knobs f/ 1/4" slot shaft #KT-7100, NEW, $2.50/set

DUAL CONTROL KNOB SET, lower 0.9" dia x 0.7"h section takes 1/4" dia shaft; upper 0.7"dia x 0.7"h knob takes 3/16" shaft. #DC-KN-ST, NEW $1.25
#KN757, Single knob matches DC-KN-ST; 0.7" dia x 3/4"h for 1/4 shaft, used, 2/$1.

DUAL CONTROL KNOB as used on H-P and TEK scopes; 1-3/8" dia skirted black base for 1/4" dia shaft with 3/4" dia red top knob for 1/8" dia shaft. #KN-DC-HP, used, $1.

LARGE FLUTED KNOB for 3/8" dia shaft. O/a 2-3/8" dia. #KNB-LCP, $1.25 ea; 2/$2.

1" dia ALUMINUM FLUTED KNOB with 1-3/8" dia skirt which tapers to knob base over 1/4" rise. O/a 7/8" high; fits 1/4" dia shaft. #KN-AL-1138, used, $1.00 ea

METAL EQUIPMENT HANDLES for mounting to panel fronts. 5/16" stock, 1.5"H X 4.25"W on center; with screws. #PNL-HAND, used, $2 /pair

Rounded bar style knob, 1-1/8" long x 3/4" across x 11/16 H. Brass insert f/ 1/4" dia sh. #KNART13 2/$1

MATCHED KNOBS, rounded edge w/4 sets of 4 hash ridges. Looks like old Hammarlund. #E5168 2 1/4" $3 #E5570 1 1/2" $2

HALLICRAFTERS with big 1 1/2" dia; arrow & grip bar. #H81014 new $1.50

ALCO KNOBS, modern plastic knobs with brushed aluminum inset fit 1/4" dia shaft. #AL-KN8P, 3/4" dia x 1/2"H; pointer for slot shaft $.45 #ALKN6, 5/8" dia x 3/8"H for 3/16" dia shaft, 4/$1.

GRC KNOBS f/Army radio sets fit beveled top screw shaft OD green; 7/8" dia skirts:
#KN-GRC-10, 1"L grip, $.50
#KN-GRC-14, 1.4" grip $.75

LARGE FLUTED TUNE KNOB like on R-388 receiver; 2.4" dia w/ 3" dia skirt; fits 1/4" shaft. #KN-FL2430, used $4.

POINTER KNOB for 1/4" dia shaft; 1.8"Lx1"Hx0.8"W. #KNBN-026-90, 3/$1.00

KALRAD KNOB SET, five 1/2" dia plastic knobs with 5/8" dia skirt, chrome insert, & set screw; #KAL5K, NEW $1.20/pk

2-1/4" dia METAL SPIN KNOB for 1/4" dia shat; 3/4"H crank. #89-8089, NEW, $3.00

LUXITROL KNOB, 2.4" dia with pointer; heavy-duty plastic fits 3/8" shaft. $3.

1.3" dia FLUTED KNOB w/1.8" dia skirt; brass insert for 3/8" dia shaft. #KN04, $.70
#KN03, as above except 1.6" dia w/ 2" dia skirt, $.90

DARK BROWN fluted plastic 1" dia X 0.5"H f/ 1930's & 40's radios. #KN-DB1, 3/$1

BEAT OSC KNOB for SP-600JX receiver; 1.6" dia knob w/ 2.3" dia skirt -3 KC-0-+3 KC, #31227-4, unused, $5.

COLLECTOR BULBS

1 2

Unusual old aircraft and projection lamp bulbs; nice glass and "simple but elegant" filaments like old radio tubes. With mogul base; may or may not be work: WESTINGHOUSE AVIATION 500 W 230 V (pic 1), 9.8H"x4.8" d; #W5C-230, $9.
NALCO 375W BULB (pic 1), low amber-pink filament light from 115 VAC but lots of heat! 7.5"Hx3.5" dia, $5.00
EDISWAN PROJECTION (2) 6-8 A 200 W; 5.3x1.4" dia. $3.00
T-8 PROJECTION BULBS (like pic 2), 200 W 3.4"Hx1" dia: GE #PH/200T8SC, $2. RADIANT mfg #R200/TCC8, $2.00

MINIATURE LAMPS

STK #	TYPE	V.	A.	BASE	BULB	EA	Per 10
#14 flashlight		2.47	.3	cand sc	G-3 1/2	.30	$2.00
#382		14	.08	min flanged	T-1 1/4	.35	2.50
#67		13.5	0.6	SC bay	G-6	.35	$2.50
#511		2	.25	min sc	G-6	.20	1.00
#44		6.3	0.25	Mini bay	T3-1/4	.30	2.50
NE-48/991 neon		115	.25	DC bay	T-4 1/2	1.50	
NE-51 neon		115	.25	min bay	T-3 1/4	.40	3.00
#47		6.3	0.15	mini-bay	T3-1/4	.30	2.50
#24-68M		24	.68	DC bay	B-6	.25	1.50

SEALED BEAM

MARINE TYPE 600 WATT 28 VOLT GE Q600 PAR 56/1 SCREW TERMINALS PRICE: $6.00 EA. WRITE FOR 100 LOT PRICE.

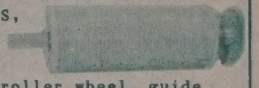
GRIMES PILOT LIGHT as used in aircraft control panels. Takes #327 or similar lamp. Unused, $.75 ea.

ROLLER INDUCTORS

PLATE ROLLER INDUCTOR, 26 turns #16 silver-plated wire 3.7"L x 2" dia coil; 14.5 uH max. 115 VAC 400 Hz motor and 20K ohm multi-turn pot; will run on 26 V 60 Hz. Can be adapted to direct-drive. O/a 6.8x4x5, 3 lbs. #L13/ARC-58, used, $27.95

L5 ROLLER INDUCTOR, part of input tune of ARC-58; 26 turns #18 silvered wire 2"Lx1.1" dia coil; 8.4 uH max. 115 V 400 Hz motor drive like above; runs on 26 V 60 Hz. Adaptable to direct-drive. O/a 6x3x 4.75, 3 lbs sh. #L5/ARC-58, used, $12.95

CERAMIC ROLLER INDUCTOR, 6 uH; twelve turns #12 silver-tinned wire wound in 1.5"L x 2" dia coil. Shaft 3/8"L x 1/4" dia. Overall size: 3.5x5x5, 4 lbs sh. #339-SM-L5, used, $12.95



ROLLER INDUCTOR KITS, includes 4.4"L x 1.5" dia ceramic coil with 40 turns #14 silvered-wire, roller wheel, guide shaft & springs. 3/8" dia shafts have removeable pinned gear. End support plates not supplied; 3#. #L22-PRC-47, 22 uH, $16. #L35-PRC47, 35 uH w/part slug core, $15.50 #L40-PRC47, 40 uH w/full slug core, $15.

MO & PA TANK COILS from TU-10 10 to 12.5 KC tuning units as used with BC-191/375 xmitters. Ceramic coil 5"Lx2"dia on 7"x3.1" mount bracket; #12 wire, 2 #. #2684/TU10, MO tank; 2.4 uH. Used, $4.25 #2697/TU10, PA tank; 1.35 uH. Used, $4.00

LINE FILTERS

DELTA EMI 3 AMP FILTER with 3-prong plug; 115/230 V 60 Hz. 2"W mount X 2"D; fits 1"x0.8" hole. #03GEEG3H. $1.75

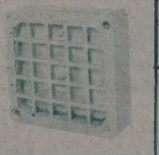
#410-3, 2X5 amps 125/250 VAC 50-400 Hz; four solder terminals. 2x2.5x1.3, 1 lb. $1.65 ea

RTE/AERVOX 2 X 10 AMP 120/240 V 50-60 Hz; 1.5x3.5x2, 1 lb sh. #A10DMS2C11, NEW, $2.50

SPRAGUE JN-4480C 2 X 25 AMP 250 VAC 60 Hz; 4.9"Lx1.9"Hx3"D, 1 lb. Unused, $4.95

HORN

FARADAY 48 VDC 100 ma HORN, made for Bell Telephone; makes loud, penetrating sound w/screwdriver volume adjust. Steel construction; recess mount. Front size 4x4x1.25; 1.25" panel depth. 3 lbs sh. #KS-12037L2, NEW, $5.95



DC FILTER, 55 amps 30 VDC; two stud terminal 2.8x5x2, 2 lbs. #537-6615, unused, $4.95

FILTRON #FA-380 RFI DC FILTER, 3 X 10 amps 28 VDC; 1.6x3x4.5, 2 lbs. Unused, $4.50

VARIABLE RIBBON INDUCTOR with motor drive; p/o Collins 180L antenna tuner. Two 5.4"L x 3.37" dia coils with 288" of drawn silver ribbon (0.125"W x 0.01" Th) wound between; approx 28 uH. Ribbon transferred from coil to coil by 28 VDC motor. O/a 9.3x5.8x5.8, 10 lbs. #L401/180L, used-removed from equip., $34.95

MICA CAPACITORS

G-SERIES TRANSMITTING CAPACITORS, used-good or unused as available.

G1-type, 2.3"H x 2.8" dia; 3 lbs. ~~$12.50~~ $7.50 ea

KV	MFD	KV	MFD
1.0	0.04	6.0	0.0001
1.5	0.08	6.0	0.0002
		6.0	0.00024

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G2, 3.5"Hx3" di, ~~$18.50~~ $12

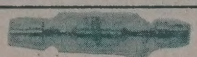
2.0	0.03		
2.0	0.045	20	0.00005

G2 MICA 0.002 mf 10 KV, $24

G3, 5"Hx4" dia, ~~$27.50~~ $18.

2.5	0.15	20	0.00015

G4 MICA 0.016 mf 8 KV, $35.



JENNINGS Y-3 VACUUM CAPACITOR, 1-5 pf 17 KV peak; 3.3"Lx0.6" dia. Unused, $8.

XMITTER COILS

used in 400 W transmitters; 4.5" dia. T-4 type has nine banana jacks; C-type five jacks. Used/unused as available; 2 lbs:

#T4-1540, 2.0-3.5 MHz, $5.00
#2353, 2-3.5 MC f/AM-141, $6
C388C 3.5-4.5 MC f/BC610 $12

PLATE TANK COIL for 2 KW power amp; 12-15 KHz range. 4-turns 3/8" dia silver-plated tubing in 6.5"Lx5.4" dia coil plus variometer & 5 banana jacks. #3C1087-12, $12.

VACUUM RELAYS

JENNINGS or equal; 26 VDC coils. Removed from equip:

#RB1J-26, SPDT 265 ohm; 12 KV pk 15 A AC/DC. Max operate 18 ms; release 9 ms Threaded 3/4" base; o/a 2.5"Hx1" dia, 1#. $51.

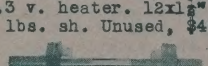
#RB3-26, DPDT 120 ohm 12 KV peak; 30 amps AC/DC. Max operate 20 ms; release 8 ms. 1.1" thread base; o/a 3"Hx1.3" dia., 1#. $52.

#RE-6B, SPDT 120 ohm 25 KV peak; 25 amps AC/DC. Max operate 25 ms; release 10 ms. 2.3" dia mounting flange; o/a 3.3"Hx3.3" dia; 2 lbs sh. $50.00

#RB1D-26, SPDT 265 ohms; 12 KV peak 15 A AC/DC. Max operate 18 ms; release 9 ms. 2.5"Hx1" dia w/1.38" dia mtg flange. $60.00

TRAVELING WAVE TUBE

ITT D-2013 CW TWT, 5 watts 33 db gain, 8.0-9.6 Ghz; 6.3 v. heater. 12x1¾" dia. 3 lbs. sh. Unused, $45.00

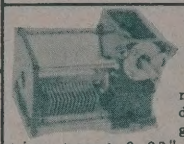


RCA 4012/A1157 TWT, 2.0-4.0 Ghz, 36 db min., 20 MW min. 15⅝"l x 3⅛"h x 1⅝"w. 4 lbs. sh. Unused, ~~$40.00~~

SINGLE SECTION 11-67 pf .05" spacing. Has three front mount spacers for #6 screws Shft 3/8x1/4" dia; o/a 3.3x 1.9x2.8. #3D9067VE8, $4.95

TUNING CAPACITOR F/RT-176/PRC-10, 38 TO 54.9 MHz; 5-GANG, 5-33 PF/GANG. WITH 1¼" AND 5/8" DIA. GEARS; 3/16" DIA SHFT. 1½x1-5/8x4, USED, $4.95

SINGLE 5-23 pf 1200 V pk; 1" x1/4" dia shaft; O/a 1.3x 2.3x1. #CT3E025. used $1.50



PRECISION TANK TUNE CAPACITOR 25-220 pf right angle drive worm gear reduction tune; 0.03" spacing. 1"x1/4" dia shaft. O/a 4.5x 2.8x3.3, 3#. #C9/SG-15, $9.

TUNING CAPACITOR ASSY f/RT-66-7-8 xmitters; 6 sections: four 8-64 pf two 8-55 pf. Also six 4-23 pf trimmers. Dual geared 3/8" dia shafts; o/a 4.8x4.8x3, 3 lbs. #3D9067E6, unused $15

#C-221/T-195, 13.5-77.8 pf one section; 17-99.6 pf the other. 0.094" air gap. ¾"x ¼" dia. shaft. 5¼x1½x3½ overall, 2 lbs sh. $3.95

SINGLE 7-26.5 pf, 0.06" air gap: shaft 1/4x1/4" dia. O/a 2x2x1.8. #C227/T235, $3

3-GANG, 15-160 pf/section, 0.02 air gap; ¼" dia shaft 1¼x4½x1½. #3TH160, $3.95

BC-624 RECEIVER R.F. TUNER ASSY 100 - 156 MHZ A.M. W/VARIABLE CAP.,COILS,TUBE SOCKETS. OSC. SEC.P/O SCR-522 5x5x5; WT: 7LBS 2ZK11150, unused, $5.95

FEED-THRU CAPS

INPUT FILTER SECTION with 31 1000 pf capacitors plus 0.02 mf disc caps & chokes. 7.5x1.8x3.3, 2 lbs #CFIL/ARC58, used, $9.95

PLUG-IN TUNING COILS for BC-230 transmitter; 2 lbs Used, $8 each

#C-433, 4000 to 5000 KC
#C-384, 5000 to 6200 KC

ARC-5 PARTS

SCR-274/ARC-5 COMMAND SET replacement parts:

#7274 3-6 MC 1st IF, $5.00
#7277 6-9.1 MC 1st IF, $5.
#7279 " " 3rd IF, $5.
#5856 " " oscilator $5
#6234 " " RF sect. $9.
#18197 239 KC I.F. $4.00
#7249 5.3-7 MC BC-458/T-21 xmitter PA coil, used $6.
#9032 6-9.1 MC BC-459/T-22 xmitter oscillator coil $6

AIR CAPACITOR

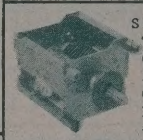
CARDWELL SINGLE 12-100 pf 0.07" gap; shaft 1.4"Lx1/4" dia. O/a 1.5x4.5x3. #MT-100-GS, unused. $9.95

DUAL 4-20 MMF 2000 VDC 1⅛x 1⅛x3 SHAFT ⅛x⅜ P/O BC-640 CARDWELL 420/2M REM $3.95

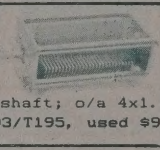
3-GANG 10-60 pf/gang; 0.03" gap; shaft 1/4" dia. O/a 1.5x4.3x1.5. ASP #4083, $4.

SINGLE 10-180 pf 0.03" gap; 3/8"Lx1/4" d shaft. O/a 3.5x 1.3x1.8. #C16/T784, used, $4

SINGLE 10-140 pf 0.02" gap; 3/8"Lx1/4" di shaft; O/a 3x1 x1.5. #C12/T784, used, $3.25

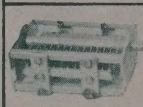


SINGLE-GANG TANK TUNE, 17-212 pf 0.04" gap; shft 3/4"Lx1/4" dia. O/a 3x2.6x4.3; high quality! #C331/AM66, $8.



SINGLE GANG 20-400 pf 0.02" gap; ceramic insulated. 3/4x1/4" d-shaft; o/a 4x1.6 x1.8. #C1003/T195, used $9.

MILLEN NEUTRAL IZING CAPACITOR, 2-gang, each 7 - 25 pf; 0.0625" spacing. 1/2"L x1/4" dia shaft; o/a 4.3x2 x1.5. #23925, NEW, $4.50



AIR VARIABLE CAPACITORS from BC-191 tuning units; 0.06" air gap:

#P7761569-7 14-62 pf 3.3x2.8 x2.3, 1/4" dia shaft, $4.00

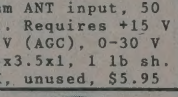
#P7761569-5 15-77 pf 3.3x2.8 x2.3, 1/54" dia shaft $5.50

#T7660443-8, 8-26 pf, 5/8"x 1/4" dia shaft; O/a 1.8x 2.8x3, 2 lbs. Used, $3.95

#366-840, 7-25 pf 0.1" minimum gap, screwdriver adjust; 1.9x1x1.6. $1.95

UHF TUNER

450-900 MHz VARACTER TUNER, use for TV or modify for scanners. Approx 47 MHz IF out; 300 ohm ANT input, 50 ohm OSC out. Requires +15 V (B+), 3-10 V (AGC), 0-30 V (tune). 3.5x3.5x1, 1 lb sh. GE #EP8566X, unused, $5.95



MAB TRANSCEIVER uses single xtal channel in 2.3 to 4.5 MHz range, 200 MW output. WW-2 vintage paratrooper radio is in waterproof black plastic case; RS-38 mic is cut-off. With tubes 3/3S4, 2/1T4, 1R5, 1S5. Requires 67.5, 135, & 1.5 VDC; less xtal. 8.8x2.8x7; 8 lbs. "AS-IS" with schematic, $8.

CTE49214 HEADPHONES without scull cap, used, $6.95
CCI66081 WHIP ANTENNA, $5.00

RECEIVER STYLE VARIABLE CAPACITORS, 500 V spacing; 1/4" dia shaft. 4x1.8x1.5, 1 lb 2-GANG, 15-140 pf & 15-95 pf; #330V020H01, $1.50

3-GANG 10-148 pf/gang with right angle gear tuning; p/o GRC-109 receiver. Shaft 0.4" x1/4" dia; o/a 2.3x5.3x2, 2 lbs. #C1012/R1004, used $10

Dual 5-15mmf, ceramic,w/friction gear to hold setting. 0.04"spacing. 2⅛x1⅛x1-7/8 in ¼"in dia shaft. coil& gear removeable. #358-3164 $1.95

2-GANG RECEIVER-STYLE, 90-220 and 100-490 pf; 5/8"Lx 1/4" dia split shaft. O/a 1.4x2.6x1.6. #900222, $4.00

SINGLE-GANG 13-282 pf, 0.02" air gap; shaft 3/8"Lx1/4" dia. O/a 1.9x3.5 x2.4. #CB-157, Used, $5.95

#CB-156, as above but 2-GANG 13-282 pf/gang; o/a 1.9x3.5x4"D. Used, $8.

AIR PADDER CAP

ALL PADDER CAPS. REQUIRE SCREWDRIVER ADJUST.

C103/382	4-23 pf	$.75
857-J3	8-55 pf	79¢
SBL72265-2	8-32 pf	59¢
3D9011V-7	5-14 pf silver-plated Hammarlund,	89¢

TRIMMER #C104/382, 7.5-99 pf screwdriver adjust, $1.50

#C653/R174, 2-11 pf screwdriver adj; ⅜x⅜x½, $.50

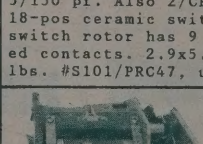
MINI-TRIMMER, 9-25 pf; 1/4" x3/16" dia shaft. O/a 0.8x 1.5x0.6. #KS14008, $1.25

TRIMMER 6-75 pf SCD-adjust; 1.3x1.6x1. #CT1C075, $1.25

DUAL HAMMARLUND 8-75 pf/section 0.02" gap. Shft 1/2"Lx1/4" dia; o/a 1.5x2.6x1.4. #VU-30, used $4. #VU-45, 10-100 pf, used $5.

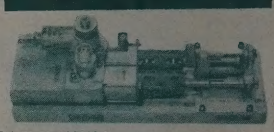
PA LOAD SWITCH

PA BAND LOAD SWITCH, good source of RF parts with 7 CRL 850-Series 7.5 KV caps: 3/20, 40, 2/50, & 100 pf plus 7 gold-plated bypass caps 2/500 & 5/150 pf. Also 2/CRL JV9000 18-pos ceramic switch deck; switch rotor has 9 connected contacts. 2.9x5.5x2.5, 2 lbs. #S101/PRC47, used $20.



ROLLER INDUCTOR ASSEMBLY with 115 VAC 400 Hz motor drive, 3.4" lg x 1.75" dia coil; 28 turns #18 wire approx 14 uH with center tap. Designed to resonate antenna to a transceiver's frequency. 4.5x 2.8x3.8, 5 lbs; used. #T301/CU-991, ~~$14.95~~ $12.

1820-2520 MHZ



PRESELECTOR, two separate cavities having 21 Mhz band width and 3 db insert loss @ 1715 Mhz. 1N21B crystal mixer 120 Mhz output from 1820-2520 Mhz injection. "C" and "BNC" connect. 9½x 3½x3½ 4 lb #PRE/TRC29 $20.

#3CPR/TRC29 TRIPLE COUPLER which fed P-A. 36 db and 65 db RF outputs; DC output for P-A meter. 4 "C" connections and one 1N21 connector. 5⅝x2½x1¼ $7.50

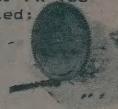
H-K FM TUNERS

HARMON-KARDEN FM TUNERS with AM capacitors--no AM component. 75 ant, 300 IF jacks. 1/4" dia shaft; 2 lbs sh.

#00234229 (Alps), similar features except IC oscillator & 3-gang capacitor; 5.5x2.5x3.3. ~~NEW $7.95~~ $7.

#FB113U13 (Alps), one FET two transistor oscillator; req -12 V; 3.5x 2.3x2.8. ~~NEW $4.95~~ $3.50

OLDER-STYLE TV TUNERS, AM (550-1600 KHz) or FM (88-108 MHz) as listed: AM-FM TUNER w/ 12DT8 tube and dial; 3x2x3, 2 lbs. #2H02, $5.

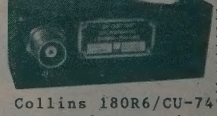


HEATH FM TUNER with 3-gang variable capacitor approx 40 pf/sec. 2.4x1.5 x2.5, 1 lb sh. #110-30, NEW $5.00

LC-902 ANTENNA INPUT TANK for TN-2A/APR-1 tuner for 76-300 MHz W/variable capacitor, coil, & 955 tube socket. 4.5x3, 4#. $5.

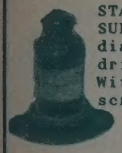
SINGLE 12-475 pf 0.02" air gap; vertical mount. Shaft 0.4"Lx1/4" dia; o/a 3.8x2.4 x2.5. Used: #C123/URM25, $9.

DISCRIMINATOR



CV-531 LOADING-PHASING DISCRIMINATOR, part of Collins 180R6/CU-749 antenna coupler; used to determine if load is <, >, or = to 50 ohms. Also if load is inductive, resistive or capacitive, & an SWR circuit. Discriminator outputs are DC voltages proportional to the error. Has HN RF connection. Use with a sensitive zero-center microammeter in your own antenna circuit! 2x5x2, 2 lbs sh. Used w/schematic, $14.95

INSULATORS



STAND-OFF GLASS INSULATOR, 3.4"Hx1.3" dia on brass base drilled 2.3" O.C. With top terminal screw. Marked "PYREX"; 1#. #GL-H3-D1.25, $2.85

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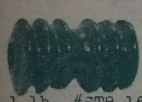
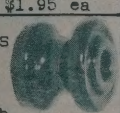
PORCELAIN STAND-OFFS, no bases but screw threaded: #P-4H-75D, 4"H x 0.75" dia; #8-24 threaded, $.65 #P-6H-1D, 6"H x 1" dia; #109-24 threaded, $1.00

PORCELAIN STAND-OFF INSULATORS w/clips for clip-in resistors or capacitors: #CSJ61304 1"Hx3/4" sq w/top clip f/1" dia endcap $1.50 #NS4WO416, 2"Hx1" dia w/90 angle 3/4" dia clip, $2.00

THRU-PANEL CERAMIC SPLIT BUSHING with center bolt and hardware: #4102, two 3/8"H x 5/8" dia ceramics f/0.3" panel $.45 #TPB-475, one 5/16" and one 3/4"H x3/4" dia ceramics for 0.4" th panel, $.85 #TPB-2125, two 1.3"Hx1.1" dia ceramics for 0.5" thick panel, $1.10 #TPB-8100, one 3/4"H & one 1"H x 1-3/8" dia ceramics f/0.5" thick panel, $1.25 #TPBR-2113, two 1"Hx1.3" di ribbed ceramics for 3/4" thick panel, $1.50

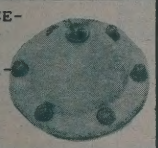


STRAIN INSULATOR, 4¾x2¾" dia; 1" dia core feed-thru 1 lb. #STR-1610, $1.95 ea

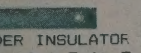


STRAIN INSULATORS Brown porcelain 2.1"H x 2.3" dia with 0.7" dia center hole; 1 lb. #STI-2123D, $.65 ea; 4/$2.

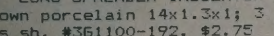
BIRNBACH #468 CERAMIC ANTENNA INSULATOR, 4.5" long strain with 3/8" hole at center offset; o/a 4.5x2x0.8, 1#. $4.50 ea



5.3" DIA PORCELAIN BOWL INSULATOR with hardware; silver-plated terminal. 3 lbs sh. Used. #INS-SRA, $5.



IN-88 SPREADER INSULATOR, 2.5"L x0.5" rd; 0.1" holes 4/$1.25



14" LONG SPREADER INSULATOR brown porcelain 14x1.3x1; 3 lbs sh. #361100-192, $2.75

SPREADER, brown porcelain 8.5"Lx1.8"Hx1"D reinforced 0.5" dia hole on ends; 3#. #SPI-85181, $1.95; 2/$3.

GLASS-BONDED MICALEX STRIPS 10"Lx1"Wx5/8"Th. Five holes .2" dia. #3G110-160, $1.50

HEAVY DUTY EQUIPMENT HANDLES on 3.7x2.5 steel plate w/three 1/4" dia bolt holes 2#; #HAND-92, used $3.75/pr

STAND-OFF'S

STAND-OFF INSULATORS, CROWS FEET TYPE. BRASS AND PLATED BRASS BASES AND TERMINALS.

D=DIAMETER
H=HEIGHTH
M=MOUNT BASE HOLES' CENTER DISTANCES
ST=SCREW TERMINALS
CT=CLAMP TERMINALS

#B-H3-D1.25-ST3, BROWN CERAMIC; M=2.25". TERM. CAP SIZE: 7/8x1-5/8" DIA. SHPG. WT: 2 LBS. $2.75

#B-H4-D1.25-ST2, WHITE; M-2.25". TERM CAP: 1x1-5/8" DIA. 3 LBS. $3.25

#XW-H5-D1-ST, WHITE; M-2.25 TERM CAP: ¾x1" DIA. $3.00

#W-H5-D1.25-ST, WHITE; M-2.625". TERM CAP: 3/8x1½" DIA. 3 LBS. $3.75

#B-H5-D1.25-CT, WHITE; M-2.25". TERM CAP: 1x1-5/8" DIA. 3 LBS. $4.00

#B-H7-D1.25-ST, brown, M-2.6". Term cap 1x1-3/4" dia; 3 lbs sh. $4.75

QUANTITY DISCOUNTS on stand-offs! 10-25 ea (1-type) 20% OFF; 25% (26-99), 30% (100+)

ARRESTOR

ANDREWS LIGHTNING ARRESTOR consists of 8.8"Lx0.5"H x1.1"W ceramic strain insulator with clip-in 625 ohm non-inductive glass resistor & 3"L discharge rods at the ends. #GC6501 unused, $14.95

AC LINE CORDS

GROUND FAULT INTERRUPT (GFI) LINE CORD, 12 ft 3-conductor #18 AWG cord with RESET button. #18-GFI, NEW, $2.50 ea

3-COND LINE CORD, 8 ft #18 wire. Black; molded plug. #BL-3CG, used cut-off, $1.15

"PIGGYBACK" CORD, 8' 3-cond #18; plug has receptacle for another plug. NEW, $1.65 ea

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#14 wire 3-COND CORD, 6 ft flat with right angle plug; black. #14-3CBF, $2.00

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BUSINESS MACHINE CORD, 3-blade type with AC plug; 6' black. #HP-NS, $2.50 $2.

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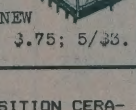
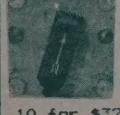
HEATER CORD type HSJ, 3-cond 7.5' #16 wire; grey molded R/A plug. #HSJ-16 $2



SPST ROCKER DIP SWITCHES for PC board use. Can be soldered or fit in socket. Grayhill mfg. NEW #763B04. 4 sw, $.75; 5/$3.



6-POSITION CERAMIC TAP SWITCH for 100 W BC-375 xmitter; 2.3x2.3 x1.8, 1 lb. NEW #3Z9605 $3.95 ea 10 for $32. 100 for $265.

CIRCUIT BREAKER

AN-3161-style PUSH BUTTON aircraft circuit breaker, 24-30 VDC; 2x3/4x2. Specify 5, 10, or 15 amp. Used, $1.25 each

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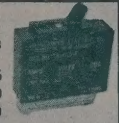
E-T-A CIRCUIT BREAKER push button style 45-700-P rated 250 VAC 15 amps. Fits into 3/8" hole; requires 2" depth. O/a 1.3x2.8x0.5 Used, $2.00 ea

ETA #46-200-H, similar to above except with separate reset rocker & mount flange. Specify 0.1, 0.3, or 3 amp. Used, $1.85 ea

ETA 41-06-P30, small 1.9"Hx 0.8x0.4 250 VAC 0.5 amp breaker. Unused, $1.95 ea



HEINEMAN AM12HK-type, 2.5x2.8x2.3

20 VDC 50 A $2.75
32 VDC 8 A $2.50
32 VDC 20 A $3.00
50 VDC 5 A $2.00
117 VAC 50 A $4.00

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#AM33MG3, two pole 115 VAC 10 amp; 2.3x2.5x1.5, $2.50

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#JA2-A8-A, 240 VAC; hold 17A, trip 21.25 A. $2.00

HEINEMAN CD2 type breakers, ganged two pole. 4.8x2x4, 2 lbs. NEW:

#CD2-Z10-1, (Rt.) 0.035 A DC Cur P. (Lt.) 68 A 270 VAC 60 Hz Cur 3. $4. $2.50
#CD2-Z74-2, 10 A 132 VAC 60 Hz T.D. 2; 125 A 10 VDC T.D. 3. $4.25 $2.75
#CD2-A3-DU, two 18 amp 240 VAC T.D. 1. $4.50 $3.00

HEINEMAN PUSH RE-CIRK-IT, 5/8" dia "fuseholder-size"; 2.5 amp 50 VDC or 250 VAC. #KD1-2.5, NEW, $1.50 ea

#CD1-Z4-1, 10 amp 600 VAC; 3.1x1 x4.8. New, $3.50

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#UPG1-1REC2, 65 VDC 1.25 amps; delay 51, trip 1.57 amps. Aux switch 10 A 250 VAC. 2x0.8x2.3. $3.00

2-BUTTON PUSH SWITCH, black makes/red breaks momentary; 3.5x1.6x1.1. #RB-BM, $1.50

TAP SWITCHES

TAP SWITCHES, 120/240 VAC 10/5 amps unless otherwise noted; 2¾"d. Used.

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#AHH33-10; 3-deck 3-pos w/knob, $3

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#AHH-230; 2-deck 3-pos and OFF. Cont. turn; 15/10 A. No knob; 3/16" d shft. $2.25

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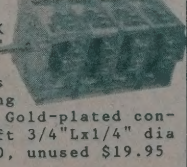


PAX ELECTRIC 4-DECK 2.3" x 2.3" SWITCH, 2-pole 11-pos non-shorting each deck. Gold-plated contacts; shaft 3/4"Lx1/4" dia #SQ-SW-3650, unused $19.95

LEVER SWITCHES

4PDT ONE SIDE 2PDT OTHER SIDE, BOTH SIDES MOM.# 1155 NEW $2.00

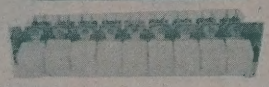
TV-2 tube test Pl lever sw; make 2-break 2. Removed $2.

2PDT ONE SIDE, OTHER 2 MAKE, P/O EE-2, USED $1.00

SPDT make before break and 2/SPST normally closed; single hole mount. Tele-type #129596 (FSN #5930-259-6880), unused, $1.50

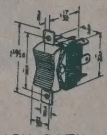
2PST ONE SIDE ONLY HOLD, CTR OFF, ONE HOLE MTG. SWITCHCRAFT 513148 NEW $1

MULTI PUSH



SWITCHCRAFT DW-Type, each section DPDT 3 amps AC; 0.5 A DC 125 V non-inductive. Can use T-1¼ size lamp. NEW #67097-506, 9-button Push-on/Push-off; 1x6¼x1⅛ $7.75

#67137-506, 13-button Push-on/Push-off; 8¾"W. $9.75
#67131K-506, 13-button interlocked, $7.95



ROCKER SWITCHES 0319 SPST 39¢ 3 FOR $1.00

0320 SPDT MOMENTARY BOTH SIDES. 65¢ EA. 2 FOR $1.20

Cutler-Hammer MINI-TOGGLES, All 6 amp 120 VAC; NEW:

DPDT center-off $1.50 3/$4.
3PDT on-on, $1.65, 3/$4.25
SPDT center-off; used, $.75

SWITCHES

MINIATURE SWITCHES, all new. Black: blk. White: wh.

SPDT on-off-on, wh. toggle (b); Alco #MLD106E, 75¢
SPDT on-on, blk. rocker (c) JST #MR2-123, 65¢
SPDT on-on, blk. push-type Alco #MSP105D, 60¢
SPDT on-on 1-side momentary blk or wh push; CK8168 65¢
SPST black rocker; not mini Carling #123, $.60
SPDT momentary push switch; C-NC-NO. C&K 8125, 2/$1.

DP3T one side mom. (f) toggle; Alco #CST-023TA, 2/$1

DPDT on-on slide (h), 6/$1.

SUB-MINI SLIDE SWITCH, SP 3-pos. #SLS-131PC, 4/$1.00

TOGGLE SWITCHES

TOGGLE SWITCHES, some single hole mount, some with mount plate; NEW or REM (removed from equipment.

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AIRCRAFT-type TOGGLES, two hole mount,
SPST new 5/125 B-15 .65
(momentary norm-closed)
SPDT new 5/125 B-9A .65
(ON-OFF-ON)
SPDT new 15/125 B-1B .75
DPDT ON-OFF-ON 8772K13 $3.

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INDUSTRIAL-type TOGGLES:
SPST rem 8/125 8817K2 .35
(above momentary)
SPDT rem 8/125 ST-42D .35
(ON-ON)
DPST rem 5/125 ST-22K .35
DPST rem 10/125 ST-52K .40
DPDT rem 10/125 8824K14 .50
(ON-ON)
DPDT rem 10/125 ST-52R .50
(ON-ON momentary)
DPDT new 6/125 T-WB-87 .75
(ON-ON, 1" mount barrel, 1/2" dia white ball cap)
4PDT rem 15/125 7673K4 1.35
(OFF-ON-OFF)
4PST rem 15/125 7661K5 1.00
4PDT rem ON-ON 34TS11-3 $1.

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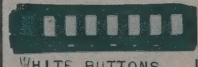
More DOLLAR-DAZE:

13 TOGGLE SWITCHES, SPST cut-offs, 5/$1.00

C&K KEYSWITCH for electronic equipment; SPST 4 amp 125 V rated. Two keys; 5/8" dia, 1" depth. #CK-KY-SW, NEW $3.95



PUSH BUTTON SELECTOR WHITE BUTTONS, 1 THRU 4 SEPARATE CONTACTS, 5,6,7 MAKE 2,3,4 RESPECTIVELY W/ COMMON. RED BUTTON RELEASES ALL. RATED @ 120/240VAC 8A SIZE: 4½x1½x2½; WT: 2 LBS. GE#ASP8128-417 UNUSED $.75

CRYSTALS

BLILEY 200 KHz CRYSTAL OVEN with CR-47 size crystal as used in R-390 &-392 receivers; 26.5 V, octal base. #TCO-1C-200K, $10.00

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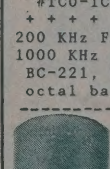
200 KHz FT-241 CRYSTAL, $4.
1000 KHz CRYSTAL as used in BC-221, LM freq-meters; octal base. Used, $12.00



JK-02 CRYSTAL OVEN FOR CR-26 CRYSTALS OPERATES FROM 6.3-24.2 V. AC/DC, OCTAL BASE. MOTOROLA #25IB1001 FOR ONE CRYSTAL AS USED IN R-394-257 RECEIVERS. $1.95 MOTOROLA #25IB1003 FOR TWO CRYSTALS AS USED IN T-278-208 ETC. TRANSMITTERS $2.50

3.6 MHz CRYSTAL OVEN, octal based unit has CR-28 type crystal; 110 VAC. 4x1.8x1.5 1 lb. #Y501/FR-5, used, $7.

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12.0 MHZ CRYSTAL OVEN octal based unit has CR-36 crystal; 24 VDC. 1.8x1.3" dia; #XTL-MD203, used, $4.95

EQUIPMENT BLOWERS

18 VDC 2400 RPM 5-BLADE FAN removed from oscilloscopes; runs well on 6 VDC. 7" dia blade rotation; o/a 8⅝"dia X 5½" depth. Includes eight single TO-3 heatsinks; 8 lbs sh. #B401/USM, used, $16.95

DUAL BLOWER, 3450 RPM 1/12 HP 115 VAC 60 Hz 1.1 A GE-motor; 3" inlet, 3⅛x2 outlet. W/capacitor; 11x6x6, 10 lbs. #GE-JG284 used $15.

DUAL 220 VAC BLOWER, 1/8 HP 3450 RPM; approx 450 CFM. Removable frame; 6.5x29x7.5, 40#. #URC683-KP, used, $15.

EASTERN AIR TWO SPEED BLOWER, 2800/3200 RPM capacitor-start motor 1/40 HP 0.38 amp 115/230 VAC 50/60 Hz. Mounted on base w/4 mfd capacitor, terminal strips. Approx 150 CFM. Intake 3" dia, outlet 1⅛x2⅛. O/A 8⅜x11x6½, 14 lbs sh wt. EAD#B747M1-C, used, $12.95

FASCO DUAL BLOWER 50 C.F.M. 115 VAC 60 Hz 0.74 amp @ 2800 RPM. Outlets 2x1-5/8. One outlet is parallel to mounting base; other is at 90 , but can be modified as shown in picture. Inlets 2⅛"dia. Overall 7⅛x6x5½, 12 lbs sh. Fasco type 21, #127S217, unused, $10.00

5-BLADE COOLING FAN removed from military power supply; 4¼" dia rotation. 115 VAC 0.1 amp 3300 RPM; w/capacitor. 2¾"D. #FAN-2054, $4.50

BLOWER/VACUUM, 115 VAC solenoid reverses intake/outake allowing blower or vacuum use. Sold LESS 1.3" dia hoses. 6x8" dia, 12 lbs #3M-CPB, $13. LESS solenoid, $8.

ROTRON SPRINT 12 VDC FAN, 1.4 W; 3.1" sq, 2#. #ST12G6, NEW $10.95
PANAFLO MINIATURE 12 VDC FAN, 2.3" sq. #FBP-068-12L, NEW $7.95

CENTAUR 24 VDC AXIAL FAN, 11 watts, but operates well at 12 VDC. 4-3/4" square metal frame with 5-blade plastic fan; 1.5" thick, 2 lbs sh. #CNDC24K4-601, NEW, $10.95

FAN-TYPE BLOWER, 115 VAC 60 Hz 20 watts; 4" plastic fan blades. Open frame low-noise motor in metal case-ment-type frame. Approximately 100 CFM. 13x5x2, 5 lbs sh. Howard #1075-3102, used, $4.50

HEATSINKS

9"x4" HEATSINK ASSEMBLY with 60 V transistors: 8 ea TO-3 similar to 2N3055 and 8 ea TO-66 similar to 2N3054 plus other parts; 4 lbs sh. #0425, used, **$3.00 ea**

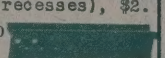
HEATSINK PLATE, 14x7.5x0.8; 4#. #HS-PL92, $4

#2T34513, 3x4.5x1.3 for two TO-36, $1.25 ea

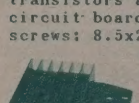
#WE-H1D HEATSINK with diode approx 100 PIV 25 amps; 5x3x1.3, 1 lb. Used, $2.50; 2/$4.

#2T351-4 with two 1/4" holes for transistors; 2.8x4.5x1.4 flat bottom, 1 lb. $1.50

#3D523-8 HEATSINK, 5x3x1-9/16; drilled for 3 large stud rectifiers (1" dia recesses), $2.



HEATSINK T-RACK, mount 8/TO-220 transistors and two diodes to circuit board. Drilled for 4-40 screws; 8.5x2x1.5. #HS-T-M12, $1.95; 2/$3.



#THS-88, 2.5x3x1 finned area and 2.1x1.5" flange for TO-3, $.85

SERIES 680 #1.0-GG55, 1.8" sq X 1"H for 0.33" dia diode; $1.25

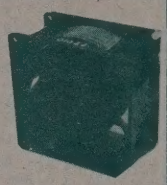
COMPACT AXIAL FANS

AXIAL FANS, 4¾" square X 1½" thick; 115 VAC 60 Hz. Removed from equipment; guaranteed.

Rotron MUFFIN® or similar; 3-blade 14W $7.

5-BLADE axial fan in metal frame; 18 watts. Various manufacturers, used, $9.
PAPST #3124F 18 VDC 2 watt or 30 VDC 3 W FAN; 9-blades, 3.5 square X 1" deep, NEW, $10.

TORIN TA300 3.1" sq X 1.6"D 7-blade mini-fan in metal housing; 115 VAC 50/60 Hz, 2 olbs sh. Unused, $12.95



6" DIA AXIAL FAN, 115 V 60 Hz 200 CFM; 5-blade in 6x6.8x1.5 metal frame, 3#. Used, $8.95

FIVE BLADE COOLING FAN, 4-5/8" dia. rotation; no enclosure. Mounting bracket hole centers 5-7/8" apart. 115 VAC 60 Hz. 2 lbs. sh. Airtrol #11-2100, NEW, $4.95

QUAD AXIAL

QUAD-AXIAL FAN ASSEMBLY, 8x22.5x2 housing with four IMC Super BOXER® WS2107F or equal fans. Each 4.5x4.5 7-blade fan rated 115 VAC 25 W 115 CFM; 13 lbs. #4SBX-FN, NEW $32.

10 INCH ROTRON FAN

ROTRON CARAVEL 10" FAN, 550 CFM free air delivery using 3-blade fan with special Feathered Edge for quiet operation. 3.5" deep aluminum housing; self-lubricating bearings. Operates on 220 VAC 60 Hz but will work on 115 VAC at 50% rating; 8 lbs sh. NEW, $24.95

HUPP VEHICLE FAN

12 VDC HUPP FAN with oscillating grill designed for use in cars, trucks, buses, RV's, etc where "extra" air movement is desired. Plugs into vehicle cigarette lighter and mounts on dash or other flat surface. Good-looking white plastic enclosure has black grill and pivots on mount to adjust angle. Includes 4 ft cord and brackets; 5x 9x3.4, 4 lbs sh. #HUPP-200-14, NEW, ~~$19.95~~ $15.95

HP-431C POWER METER

HEWLETT-PACKARD 431C MICROWAVE POWER METER, solid-state unit used to measure 0.01 to 10 MW power in 7 ranges over 10 MHz to 40 GHz. Uses HP-478/486 thermistors which are not available. Output for voltmeter or recorder. Requires 115/230 VAC 50-1000 Hz 7.8x6.6x12.5, 12#. Used-reparable, $75.00
MANUAL for HP-431C, partial repro, $10.00

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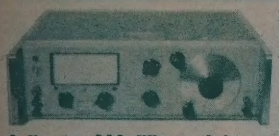
DISTORTION ANALYZER

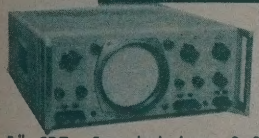


HEWLETT-PACKARD 331A DISTORTION ANALYZER, solid-state unit measures total distortion to 0.1% of full scale over 5 Hz to 600 KHz and harmonics indicated to 3 MHz. Distortion levels of 0.1% to 100% measured full scale in 7 ranges and noise levels as low as 50 mv. Fundamental rejection >80 DB. Wide voltmeter indicates 300 uv to 300 V rms full scale in 13 ranges, 10 DB/range. Requires 115/230 VAC 60 Hz; 16.8x5 x13.3, 22 lbs sh. Used-reparable, $265.00; CHECKED, $350. MANUAL, partial repro, $15.00

DUAL-TRACE SCOPE

HEWLETT-PACKARD 140A SCOPE (USM-309) with 1405 DC to 5 MHz Dual Trace and 1421 Time Base Delay plug-ins; 5" dia CRT. Sensitivity: 5 MV to 10 V/cm in 11 steps, 1-2-5 sequence; vernier to 25 V. Displays channels A or B alone, alternating or added. Sweeps intensified Main, Delayed, or Mixed. Range: 0.2 usec to 1 sec/cm, 21 step 1-2-5 sequence vernier to 2.5 sec. Delay 0.2 usec - 50 msec /cm in 17 ranges, 1-2-5 sequence; vernier to 150 msec. Delay before start of delayed sweep 0.5 usec to 10 sec continuously variable. Also X10 magnifier, beam finder. Mainframe is 20 MHz and accepts other 1400-Series plug-ins. 16.8x9x18.4, 54 lbs sh. Used-reparable, $145.00; Checked, $195.00 MANUAL f/above, part-repro, $15 w/set purch.

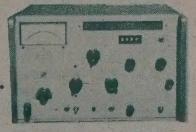
500 KHZ SCOPES



HEWLETT-PACKARD 130C SCOPE, 500 KHz band width and 0.2 mv/cm sensitivity for X-Y amplifiers useful in phase measurements. Large easy-to-view 5" CRT. Sensitivity: 0.2 mv to 20 V/cm in 16 calibrated steps, 1-2-5 sequence; vernier to 50 V/cm. Sweep 1 usec to 5 S/cm in 21 steps; vernier to 12.5 S/cm. Also 350 Hz squarewave calibrator, X2/X50 magnifier, auto trigger, beam finder; with manual. 115/230 VAC 50-1000 Hz; 7.3x16.8x18.5, 38 lbs sh. Used: Reparable, ~~$135~~. $99.50; Checked, ~~$195~~ $165.

H-P WAVE ANALYZERS

HEWLETT-PACKARD 302A WAVE ANALYZER, covers 20 Hz to 50 KHz with operational modes AFC-normal-BFO; 6 Hz selective bandwidth. Resolution: 10 Hz per division. Meter range 30 uv to 300 Vrms full scale in 15 ranges; dynamic range >75 DB. BFO output 0-2 Vrms open circuit. Requires 115/230 VAC 60 Hz; 12.5x20.8 x14.5, 50 lbs. Used-reparable w/book, $135.



HEWLETT-PACKARD 310A WAVE ANALYZER, 1 KHz to 1.5 MHz with selective bandwidths 200, 1000 and 2000 Hz; resolution 200 Hz/division. Modes AFC-Normal-BFO-USB-LSB-AM. Amplitude ranges 10 uv to 100 V full scale, 16 steps. AFC: dynamic hold-in +/-3 KHz min @ 100 KHz; tracking 100 Hz/sec. Restored signal freq max output 0.25 V across 135 ohms. Requires 115/230 VAC 60 Hz; 10.8x16.8x18.4, 50 lbs. Used-reparable with manual, ~~$150~~. $175.00

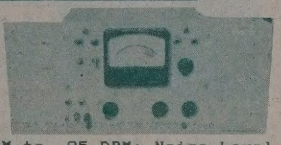
SWEEP GENERATOR

HEWLETT-PACKARD 8601A SWEEP GENERATOR, compact unit covers 100 KHz to 110 MHz in two bands 0.1 to 11 and 1 to 110 MHz with +/-1% design accuracy. Output +20 to -110 DB in 10 DB steps and 13 DB vernier; CW or Sweep SYM-Video-Full. AM-FM modulation 1 KHz. Requires 115/230 VAC 60 Hz. 6x7.8x16, 26#. Used-reparable w/output & manual, $395.

RI-FI METER TEST SET

AN/PRM-1A RADIO-INTERFERENCE-DIELD-INTENSITY SET, similar Stoddart NM-20B. Determines source of radiated and conducted interference and associated radiation patterns. Major component is IM-37A RFI meter which covers 150 KHz to 25 MHz in seven bands and measures RF voltage from 1 uv to 1 volt. RFI sensitivity: 2 uv/m to 2 v/m indicated on meter and via 600 ohm audio jack. Also includes ME-33 remote meter, PP-427 115/230 VAC supply, antennas AT-211-212-213, adapters UG-104-105-537, impedance match networks CU-195-197, transit cases CY-749A-750, calibration book & manual. IM-37 7.8x14x16.5; set 120 lbs sh (UPS in 2 pkgs). GOV'T-RECOND., ~~$375~~. $295.

VU & NOISE LEVEL



NORTHEAST ELECTRONICS TTS37BR NOISE LEVEL-VU MEASURING SET, solid-state unit has 1 and 10 DB/step attenuators provide Level measurements +23 DBM to -95 DBM; Noise Level 113 DBRN to -5 DBM. Input impedances 900 & 600 ohm circuits balanced or unbalanced, terminating or bridged. Sensitivity -80 DBM @ 0 DB. Filter select C MSG/Hi Pass /3 KHz/15 KHz. Has large VU-meter with scales -15 to +3 VU-DB, -5 to +13 DBRN. 8.8x19x7.5, 15 lbs sh. Used-reparable w/book, $125.00

10 KHZ TO 50 MHZ

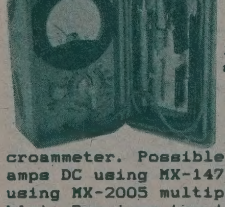
AN/URM-25F SIGNAL GENERATOR, covers 10 Khz to 50 Mhz AM in nine bands. RF output: 0.1 to 100K microvolts into 50 ohms; 2 V adjustable across high load impedance. Modulation 0-50%, 400 or 1000 Hz internal. 1 Mhz calibrator; designed accuracy ±0.05% above 10 Mhz Requires 115 VAC 50-100 Hz. 11¼x14x10¾, 44 lbs. Used, reparable, $145. Checked, $210.00

ACCESSORIES available w/purchase of URM-25F: BOOK-partial repro,$10. DA-109 Dummy Load $6 CX-2919 Test Lead Adapter, $7.50 CU-406 Impedance Matcher, 500 ohms up, $7.50 CU-408 Impedance Matcher, 70 ohms, $7.50 BNC Cables, 6", $1.00; 4 feet, $1.50

2400-3400 MHZ WAVEMETER

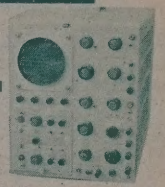
TS-117/GP WAVEMETER TEST SET designed for frequency measurements between 2400 and 3400 MHz. Used to measure antenna radiation, local oscillator frequencies, relative field strength and relative output. Q from 1800 to 2000. Includes 50 u-ammeter, sensitivity vernier, and frequency micrometer with conversion tables. Accessories AS-23 directive antenna, UG-183 cable, UG-57 and UG-131 adapters and transit case; "N" connections. 5x6x3, 15 lbs sh. Used-complete, ~~$39.95~~ $32.

ME-77 VOLT-OHMMETER



ME-77/URM-105C VOLT-OHM-METER, handy portable meter in ruggedized plastic case has 0-10-100-100 VDC (20KΩ/v) and VAC (1KΩ/v) ranges; resistance 0-2K-20K-200K-2M-20M ohms. Response 30 Hz-10 KHz; has 3.5" dia FS=50 microammeter. Possible measurements to 100 amps DC using MX-1471 shunt and to 50 KV DC using MX-2005 multiplier (neither available). Requires two AA batteries (not included) for X1-X10-X100 ohms scales; 22.5 VDC battery (not available) for X1K-X10K ohm scales. With test leads and alligator clips; 6.6x4x3.3, 3 lbs sh. Used, $16.95

TEKTRONIX SCOPES



TEKTRONIX 545 SCOPE 30 MHz mainframe with sweep delay, two time bases, and 6x10 cm display. Versatile unit uses wide variety of Tektronix and other manufacturers' letter- & 1-Series vertical plug-ins. 17x13.3x24, 80 lbs sh. Yes, this popular tube-type scope has been around awhile and must be shipped via truck. But consider Tektronix quality, versatility, and now the "unheard of" low price:

TEK 545A w/Tek CA dual-trace, CHECKED, $225.

* *

TEK 545 Mainframe only, used-reparable: $65.
TEK 545A MAINFRAME, used-reparable, $80.00

MANUALS for TEK 545, 545A, 545B or 585A (specify), partial reproductions, $17 each.

* *

VERTICAL PLUG-INS for above, add $10 if Tektronix mfg. desired. Used-reparable:
TYPE C Hickok Dual Trace, DC-24 MHz, $50.
TEK CA Dual-Trace, DC-24 MHz, $75.00
G Wide-Band DC-20 MHz, $20.00
53/54K Fast Rise/High Gain DC, $25.00
L Fast Rise/High Gain DC and AC, $35.

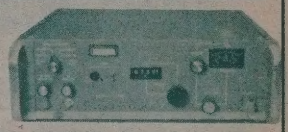
TEK M Four-Trace, DC-20 MHz, $125.00
TEK Q Transducer-Strain Gauge Amp, $145.00
TEK 1A1 2-Trace 30/50 MHz Tek 545/47, $115.
TEK 1L20 SPECTRUM ANALYZER 0.01-4 GHz $450.

+ +

80 MHZ SCOPE

TEKTRONIX 585A, like 545A except DC to 85 MHz response using Type 82 dual-trace plug-in. Reparable, $150. Checked 585A mainframe w/reparable 82, $235. Mainframe only for 585A, reparable, $100.00
" only for 585, reparable, $75.00

3.7 TO 8.4 GHZ GENERATOR



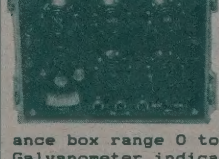
POLARAD 1107 SIGNAL GENERATOR, 3.70 to 8.40 GHz CW, square wave, and sawtooth FM; has three place mechnical digital tuning. Output attenuator continuous;y tunable from 0.1 u-v to 300K uv. Internal square wave and FM rate 800-1200 Hz; FM sweep adjustable over 5 MHz most of band. 2/A713441 transistors and tube 4/0A2, 3/12AX7, EL34, 8068, A160011 Polarad #klystron. Requires 115/230 VAC; 5.3x16.8 x18.3, 50 lbs. Used-reparable w/book, $350.

POLARAD 1108, similar to 1107 except 6.95 to 11 GHz, used-reparble w/book, $365.00

AC-DC CAL STANDARD

RFL 829 AC-DC CALIBRATION STANDARD for DC-AC instruments. Full scale DC volts ranges: 0.25 mv to 2000 V in 13-steps, 2-5-10 sequence. AC volts: 1.5-750 MV in 9-steps and 1.5-1500 V in 10-steps, 15-30-75 sequence. AC-DC amps full scale ranges: 0.05-20 amps in 10 steps, 5-10-20 sequence. Accuracy +\-0.5% of full scale on large 6" wide mirror-backed meters. Frequency range 50-1000 Hz. Standard cell and original calibration books not available. Copy of general cal-book and operating info included. Requires 115 VAC 50-400 Hz; 22.8x 32.3x16.5, 200 lbs sh. Used-reparable, $350.

WHEATSTONE BRIDGE



ZM-4 RESISTANCE BRIDGE, portable Wheatstone bridge used to measure DC resistance of communication and power lines to determine shorts, crosses, and grounds. Resistance measurement range 1 ohm to 1,011 M-ohms +/-0.15%; resistance box range 0 to 10,110 ohms, 16-500 ma. Galvanometer indicates degree of balance in test circuit. Requires three "D" batteries. Also 22.5 to 200 VDC for more accurate readings above 1000 ohms. 5.8x7.3x8.8, 12 lbs sh. Used-reparable, ~~$49.50~~ $39.50

TV-7 TUBE TESTER

TV-7 TUBE CHECKER, portable unit tests most military and older commercial receiving and low-power transmitting tubes. Indicates dynamic mutual conductance, emissions, gas, noise, and shorts. Test sockets for octal, loctal, 4-,5-,6-,7-pin, 7- and 9-pin miniature, acorn, flat and round subminiature tube base sizes. With tube test data book. Requires 115 VAC 50-1000 Hz. 6.3x8.5x15.8, 22 lbs sh. Used-reparable, $45.00; Checked, $75.00

TUBE TEST ADAPTERS for TV-7, used:
#E104 for sub-mini tubes, $5.00
#E105 for 829/832, $7. #E107 for 2C39, $7.

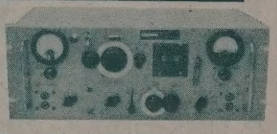
TRANSISTOR TESTER

HICKOK MODEL 1890M TRANSISTOR TESTER, checks transistors in and out of circuit. Collector leakage current (I_{ebo}) ranges: 0-50-500 ua and 50 ma. Collector current (I_c) 0-1-10-100 ma. Current gain Beta: 0-50-100-200-400. AC test signal 1000 Hz. Transistor input resistance range 50-10000 ohms; circuit input impedance 25-100000 ohms. Collector voltages 0-1.5-3-4.5 VDC. Has transistors 4/2N651A, 2N650A. Requires batteries (not supplied) Eveready 763 (22.5 V) and two Burgess 2370-ST (4.5-3-1.5 V). With partial repro of manual. 10x10½x9½, 18 lbs. Used-reparable, ~~$54.50~~ $42.

DISTORTION ANALYZER

TS-723 DISTORTION ANALYZER, similar to Hewlett-Packard 330B; used to evaluate output of audio amplifiers. Measures harmonic distortion as percentage or in decibels and noise level in RMS or DB values referenced to 1 MW across 600 ohms. Response 20 Hz to 20 KHz; distortion sensitivity as low as 0.3% of meter full scale. Noise amp gain: 40 db +/-1 db from 20 Hz-15 KHz. Set-level amp gain: 20 db +/-1 db 20 Hz-20 KHz. Input impedance 200K ohms shunted by 40 pf. Built-in AC VTVM has ranges 0.03-300 Vrms in 8 steps; -30 to +50 db in 8 steps. VTVM response 10 Hz-100 KHz. With tubes 0D3, 5Y3, 3/6AC7, 2/6J5, 4/6SJ7, 6Y6. Requires 115/230 VAC 50-1000 Hz. 10.5x19x12, 50 lbs. Used-reparable, ~~$165~~ $99.50 Checked, ~~$210~~ $150. MANUAL, part-repro $10.

XTAL IMPEDANCE METER

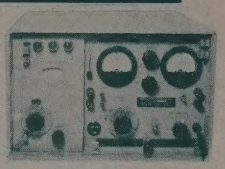


TS-330/TSM CRYSTAL IMPEDANCE METER, measures parameters of 1 to 15 MHz quartz crystals, measures series resonant and anti-resonant resistances, and provides performance index of crystal activity. Ranges 0-1.5, 1.5-2.25, 2.25-3.4, 3.4-5.1, 5.1-7.5, 7.5-10.0 MHz. Resistance calibration 0-100 ohms (1Ω steps), 100-990 ohms (10Ω steps), 1000-9900 (100Ω steps). Load capacitance 12-110 pf using 0-100 dial and calibration chart. Requires 115 VAC 50-1000 Hz. Similar to RFL Model 459; gray or black color. 7x 19.5x8.3, 30 lbs. Used-reparable, ~~$165~~ $135 MANUAL for TS-330, partial repro, $12.00

ME-6D VOLTMETER

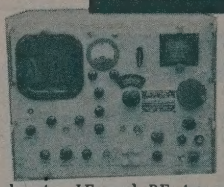
ME-6D/U VTVM, covers 0.005 to 500 V-rms in six ranges and -65 to 57 db. Built-in 15 Hz-250 Khz wide-band amplifier with max. voltage gain of 4500; minimal distortion to 23 VAC output. 115 VAC 50-400 Hz. 11½x6½x5¼, 14 lbs sh wt. Used-reparable, $20. Checked, $40. MANUAL f/ME-6D, partial repro $8.50

50 TO 400 MHZ FM



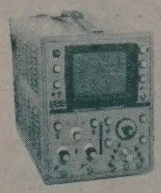
SG-3/URM-70 FM SIGNAL GENERATOR, 50-400 MHz in three bands. Internal modulation @ 100, 1600, or 20000 Hz. External;: 250 to 75 KHz. FM deviation: 0-15-75-150 KHz (50-100 MHz), 0-30-150-300 KHz (100-200 MHz), and 0-60-300-600 KHz (200-400 MHz). Output: 0.1 to 100K u-volts ±25%. 50 ohms output. Requires 115 VAC 60 Hz. 15x11.5x17.3; 90 lbs. Used-reparable, $165. Checked, $235. MANUAL for URM-70, partial repro, $10.00

SWEEP GENERATOR



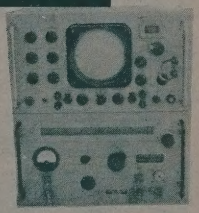
SG-24/TRM-3 SWEEP GENERATOR covering 15 to 400 MHz AM-FM-CW with bandwidths from 600 KHz to 160 MHz at center frequencies in range. Output 0.1 uv to 100K uv into 50 ohms is used to test, align, and calibrate IF and RF tuned circuits. Also has 5" (5UP1) CRT for displaying bandpass curves. Markers at 200 KHz, 1, 5, & 20 MHz. FM sweep deviation continuously variable +/-2 to 20% of center freq; rate 25 Hz. Vertical input attenuator 0 to 60 DB in 7 steps. BNC RF connections; accessory probes and adapters not available. With 35 tubes including 6481 oscillator. Requires 105-125 VAC 50-1000 Hz; 17x17x13.2, 77 lbs sh. (UPS in 2 pkgs.) Used-reparable, $295. MANUAL, repro, $12.00

H-P 50 MHZ O-SCOPE



OS-189/USM-281A SCOPE, militarized Hewlett-Packard 180 with PL-1186A dual-trace and PL1187A time-base sweep delay plug-ins. Has DC to 50 MHz response, solidstate circuitry and 8x10 cm display. Deflection ranges: 5 mv to 20 V/div in 12 steps, 1-2-5 sequence plus vernier to 50 V. Select A and/or B channels, A+B, alternating and chopped; X5 magnifier. Maximum input: 600 VDC peak (AC-coupled) or 350 VDC @ 20 V/div (DC coupled). Sweep Normal, Auto, or Single. Ranges 0.1 us-2 s/div in 23 steps, 1-2-5 sequence, vernier to 5 sec. Delay range: 0.1 us to 50 ms/div in 18 steps, vernier to 125 ms. Delay time variable 0.1 us-20 sec. Sweep magnifier X5, X10. Calibrator 250 mv & 10 V p-p @ 1 KHz. Requires 115/230 VAC 50-440 Hz; 11.4x7.9x21.3, 44 lbs sh. Used-reparable with trace, $195. Checked, $325. MANUAL, partial repro, $25.

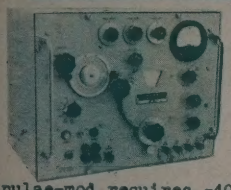
SPECTRUM ANALYZER



TS-1010/UPM-84 SPECTRUM ANALYZER, covers 10 MHz to 44.88 GHz in eight bands; 5" 5ADP7 CRT display. Resolution at 3 db points: 20 KHz over range. Dispersion: 500 KHz-5 MHz adjustable (10-55 MHz); 500 KHz-25 MHz (55 MHz and up). Spectrun calibrator 160 MHz center freq +12.5 MHz. Sensitivity as low as -63 db (10-150 MHz); 40 db (2.0 GHz up.) RF attenuation 100 db uncalibrated internal 10 MHz to 12.4 GHz; external attenuators required above. IF attenuation 0-60 db in 6 db steps. Requires 115 VAC 60 Hz. 17.3x19x26, 230 lbs sh w/case. Used-reparable, ~~$425~~ $345 $295. MAINTANANCE MANUAL, partial repro, $15.00 OPERATOR'S MANUAL, partial repro, $8.50

+ + + +

4 GHZ TEST EQUIPMENT



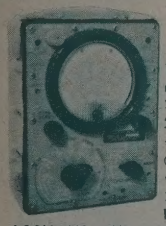
TS-403 SIGNAL GENERATOR similar to Hewlett-Packard 616B; 1.8 to 4.2 Ghz directly calibrated. Output 0.1 uv to 200K uv into 50 ohm load monitored on 3½" round Power Level meter Internal modulation 40 to 4000 Hz. External pulse-mod requires -40-+70 V; width 1 to 2500 usec squarewave or modulated. Requires 115/230 VAC 50-1000 Hz. 17¼x13½x13½, 70 lbs Used-reparable ~~$188~~ $165. MANUAL, repro $10.

SG-557/TS-621 SIGNAL GENERATOR, 3.8-7.5 GHz FM, CW, pulse; similar to HP-618. 17.5x14 x19.5, 110 lbs. Used-reparable w/book, $215.

SQUAREWAVE

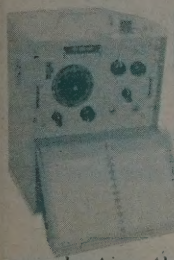
SG-299 SQUAREWAVE GENERATOR, 1 Hz to 1 MHz in six decade ranges. Output: 7 V peak-to-peak 75 ohm impedance with 0.02 usec risetime; 55 V p-p 600 ohm impedance 0.1 usec risetime. 75 ohm attenuation 0-20-40-60 db. Sync input: Positive pulse or sine wave. Requires 115 VAC 60 Hz; 13.9x9.8x13.9, 40 lbs Used-reparable, $35. MANUAL part-repro $8.50

MULTIMETER



ME-297/USM-223 FET MULTIMETER measures volts AC and DC to 5000 V in sequential ranges 2.5-10-50 to 5 KV, AC/DC 1000 ohm/v or DC 20K ohm/v. Also DC current to 10 amps in full scale ranges 0.25-2.5-10-50-100-500 MA DC and 2.5-10 amps. Resistance scales x1K-10K-100K-1M-10M ohms. Includes rugged plastic case, 4.5" dia FS=50 ua meter, red-black test leads and front cover. Requires 6-PXB1 1.3 V and 1-"C" batteries (not included). 6x 7.4x8.8, 7 lbs sh. Used-reparable, $34.95; Checked $54.95; Manual partial repro, $8.50

FREQUENCY METER



TS-323 FREQUENCY METER & XTAL CALIBRATOR for determining unknown signals in the 20-450 MHz range. Vintage design similar to the old BC-221's, compares the unknown against the meter's fundamental and harmonic frequencies. Operator listens with 600 ohm earphones (not supplied) zero-beating the signal against the meter's xtal check point output. The dial reading indicated is then matched to corresponding frequency listed in meter calibration book. Original accuracy to 0.005%. Uses 1000 KHz crystal and tubes 2/6AK5, 6C4, 9001, 9002. Requires batteries (not available) for power 6 & 45 VDC. 15x12x10, 38 lbs sh. UNUSED with manual and spare tubes & crystal. $75.

MULTI-PURPOSE TEST SET

AN/TRM-1 SIGNAL GENERATOR, covers 0.19-400 Mhz AM using two RF oscillators SG-32 (0.19-30 Mhz in 5-bands) and SG-33 (30-400 Mhz). Internal modulation 0-60% @ 1 Khz or 200-6000 Hz external. Output: 2.5 to 100K u-volts in nine steps; 50 ohm impedance. Built-in voltmeter measures 0-3-30-600 VDC, 0-3-30-300 VAC, and 0-10-100-1000 MW. Also tests performance of 3 to 100 watt transmitters over freq. range when proper coupler and dummy load (not included) is used. Write for availability/price of accessories. Requires 115 VAC 60 Hz. 18x13x8; 65 lbs. Shipped UPS in two cartons. Used, reparable $135. Checked, $225 MANUAL, partial repro., $10.

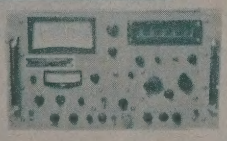
SOLID-STATE SCOPE

OS-106/USM-117 TRANSISTORIZED OSCILLOSCOPE, DC to 5 Mhz bandwidth, 4QP2 rectangular CRT, and is very compact. Includes MX-2996 high gain vertical plug-in plus has dual-trace capabilities when used with MX-2995 plug-in (not included). Sweep range 0.1 usec to 0.1 sec in 19 calibrated steps in 1-2-5-10 sequence. Vertical sensitivity: 0.01 v/div to 20 v/div in 11 calibrated steps in 1-2-5-10 sequence, variable to 50 v/div. Input impedance 1 Megohm shunted by 47 pf. Calibrator generates 1 Khz square wave at either 0.04 or 0.4 V p-p. Requires 115 VAC 50-60 or 400 Hz. 8.5x9.8x15; 20 lbs. Used-reparable, ~~$165~~. $115.; Checked, ~~$265~~. $175. USM-117 with DUAL-TRACE MX-2995 PLUG-IN instead of MX-2996, add $75 to above prices. MANUAL for USM-117, partial repro, $15.00 MANUAL for MX-2995, partial repro, $15.00

ENVELOP DELAY TEST

SIERRA 340B ENVELOP DELAY TEST SET, solid-state unit designed to cover CCITT and WE voice and group carrier mulitplex system frequencies. Separate 6-digit readouts for delay in U-sec and frequency in KHz. Carrier freq 300 Hz to 110 KHz in two ranges; delay 0-20K usec (25 Hz modulation), 0-2K usec (250 Hz mod). Input/output Z select 75-135-600-900 ohms. Transmitter output -20 to +10 db; receiver -45 to +20 db Requires 115/230 V 60 Hz; 5.3x19x15.8, 32#. Used-reparable, $195. Manual part-repro, $12

ENVELOP DELAY TEST

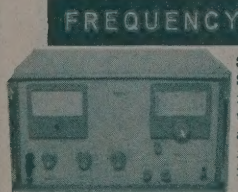


TS-2669 ENVELOP DELAY DISTORTION MEASURING SET Actom mfg; provides carrier, reference & sweep. Has 5-digit frequency counter (-40 to +20 DB input) & signal generator (-20 to +10 DB out) over 0.1 to 600 KHz. Counter time 0.1, 1, 10 sec. Modulation 25, 83-1/3, 250 Hz. Input imped: 75, 130/135, 150, 600, 900 ohms. Delay Millisecond and % Modulation meters; solid-state. Requires 115/230 VAC 60 Hz; 10.5x 19x14.5, 47 lbs. Used-reparable, ~~$250~~ $150.

700 MHZ MULTIMETER

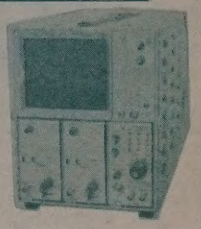
ME-26D MULTIMETER, measures AC or DC voltages and resistances at frequencies from 20 Hz to 700 MHz. AC-DC volt scale 0 to 1, 3, 10, 30, 100 and 300 V; to 1000 V DC only. Resistances measured from 0 to 500 megohms in seven ranges. DC input impedance: 122 meg ohms; AC input >0.1 megohms @ 100 MHz. Vacuum tube-type including 2-01C in AC probe. Requires 115/230 VAC 50-1000 Hz. 7x11x7.5, 15 lbs sh. Used-reparable, ~~$65~~ $45. Checked ~~$99.50~~ $85. MANUAL for ME-26D, partial repro, $10.00

FREQUENCY SELECTIVE



SIERRA 125B FREQUENCY SELECTIVE VOLTMETER for carrier communications measurements or usable as VLF receiver, if you make a preamp for it. Frequency range 1-620 KHz in one band. Attenuator -70 to +30 DB in 10 DB steps or 0.0003 to 30 V-rms full scale in 11 steps. Bandwidth 250 or 2500 Hz, line impedance 135 or 600 ohms, and two calibrators. Requires 115/230 VAC 60 Hz; 10.3x17x14.5, 40 lbs sh. Used-reparable with output, $79.50

TEKTRONIX 7603N11S



Why spend more money for an import scope with much less performance when you can buy mil- AN/USM-281C (Tektronix 7603N11S) OSCILLOSCOPE, a modern, versatile 7000-Series scope with large 8 x 10 cm display and at least 65 MHz response? Includes two AM-6565 (7A15AN11) single-trace and one TD-1085 (7B53AN11) dual time base plug-ins plus the 100 MHz mainframe accepts standard Tek 7000-Series plug-ins. Vertical deflection 5 mV to 10 V/div in 11 calibrated steps, 1-2-5 sequence; vernier to 25 V/div. Sweeps: Normal, Intensified Delay, Delayed, and Mixed. Rate 0.05 uS to 5 S/div in 25 steps, 1-2-5 sequence; 5 NS rate using x10 magnifier. Delayed rate 0.05 uS to 0.5 S/div in 22 steps. Requires 100-120/200-240 VAC 48-440 Hz. With book; 11.5x9.7x25.2, 52 lbs sh.

USED-REPARABLE w/trace, $395. CHECKED, $495. MANUAL for USM-281C only, partial repro, $25.

* *

ADAPTERS for USM-281C/TEK 7603 sold only with purchase of scope from us:

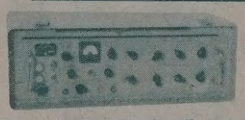
#103-0015 ADAPTER, BNC (f) to UHF (m) $2.50
#103-0032 ADAPTER BNC (m) to UHF (f) $2.50
#103-0033 ADAPTER BNC (m) to post, $2.50
#103-0030 T-CONNECTOR, BNC (f-m-f), $3.00
#012-0118 CABLE, 8 ft BNC, 50 ohms, $4.00

OS-250/USM-384 STORAGE SCOPE, like OS-245/ USM-281C but with storage capability; similar to Tek 7613. Reparable-no book, $400.00

TEK 7A16A PLUG-IN, DC-225 MHz single trace for 7900-Series scopes. Reparable, $125.00

TEKTRONIX R453, rackmount TEK 453 portable; DC-50 MHz dual-trace. Used-reparable, $275.

SINGLE SIDEBAND TEST

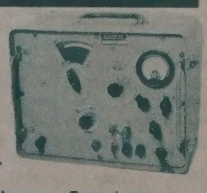


SG-376 TRANSISTORIZED TWO-TONE I.F. SIGNAL GENERATOR for testing SSB equipment. Has two 20 Hz-20 KHz audio oscillators and two independent IF oscillators. IF outputs: 497.5, 498.5, 501.5 or 502.5 KHz only plus 497.5 & 498.5 or 501.5 & 502.5 KHz simultaneously. Output levels: 2-2.5 V into 600 ohms (AF); 1-1.25 V into 60 ohms (IF) with attenuation to 100 db in 1 or 10 db steps. Requires 115 VAC 50-450 Hz. 5.5x19x11, 35 lbs Used-reparable $95. Checked $155. MANUAL $10

SOLID-STATE OS-8

OS-8G TRANSISTORIZED OSCILLOSCOPE with 3RP1 CRT; small portable unit is similar in appearance and specifications as earlier vacuum tube versions of OS-8. Response: DC to 2 MHz. Sensitivity 0.075 V-rms per 1" deflection. Sweep: 3 to 50 KHz. Input impedance: 9 megohms shunted by 11 pf DC. Direct acccess to vertical and horizontal plates. Tech manual not available. Requires 115 VAC 50-1000 Hz. 9x6x13.5, 18 lbs sh. Unused, with test cable, $115.00

4 TO 405 MHZ GENERATOR



SG-117/URM-26B SIGNAL GENERATOR, 4.0 to 405.0 MHz AM-CW-pulse in six bands. Compact unit has 0.1 to 100K uv output @ 50 ohms. Modulation 400 or 1000 Hz 0-50%. External pulse-mod requires positive 40 V min. 50-5000 pps; duration 2-40 usec and 70 ohm input impedance. Requires 115 VAC 50-1000 Hz; less front cover. 11.3x 14x10.5, 36 lbs. Used-reparable ~~$175~~ $115. Checked, ~~$225~~ $165. MANUAL, partial repro $10.

ACCESSORIES sold only w/purchase of URM-26B:
CN-315 2:1 attenuator, 50 ohms, $8.00
CN-316 10:1 50 $10. CN-471 10:1 70 $10.
CU-439 impedance matcher, $10.00
BNC cords, 4 ft, $3.00; 6", $2.00

COMMODORE MOTHERBOARDS

#VIC-01981

#VIC-01983

MOTHERBOARDS for COMMODORE VIC-20, the ever-popular 5K memory color computer which still has a dedicated following. All components intact. "Some worked, some didn't" when we powered-up a sampling and so we are selling them "AS-IS." Good source of spare parts or, if your a gambler, the basis for cheap computer; 3 lbs sh. Two versions to choose:
#VIC-01981, eleven 2114 RAM; 9 VAC req $10.
#VIC-01983 with two M58725 2Kx8 RAM or equal; requires 9 VAC and 5 VDC, ~~$13.50~~ $9.

+ +

COMMODORE C-16 KEYBOARD, originally p/o the C-16 computer--a short-lived transition computer between the VIC and C64. By switching a few wires, it will work with VIC on most keys. Change info included. 5x15x1.5; 3 lbs sh. #KB-C16 $3. (If purchased w/VIC board $1.50)

RF MODULATOR

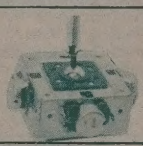
COMMODORE 251155-01 RF MODULATOR for VIC-20 computer. Video and audio input using 5-pin DIN plug; channel 3 or 4. 3x1.5x0.8 box w/ 36" cord; 1#. NEW, $2.95

MONROE JOYSTICK

Quality MONROE JOYSTICK has two 150K ohm variable resistors and "FIRE" button. 1.3" high metal control stick does not have spring "return". 8' cord w/DB-9 conn; 2.5x1.4x3.5. #MA8699 NEW ~~$9.85~~ ~~$7.85~~ $6.

KRAFT COMPUTER PADDLES designed for use with PC's; each with 100K ohm adjustable pot FIRE button, and 4.5 ft joined at one male DB15 connector. Each 4.3x x3; 4 lbs. #KR820-005, ~~$9.95~~/pair ~~$4.85~~/pair $3.95

JOYSTICK with four 50K ohm pots having fixed center-taps; smooth ball action. Brushed aluminum handle. 2.8x2.8x2.8. #JS-50K-LIB, NEW, ~~$5.95~~ $4.50

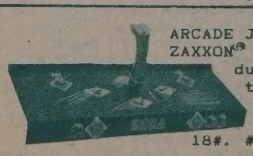


BALLY ARCADE BOARD

Part of home arcade game; has Z80 CPU, 2364, 8/4027, 7416, DM81LS95 and 74-series LS00, 2/LS02, LS04, 2/LS10, 2/LS74, LS174, 2/LS257, LS376; 14.318 MHz xtal and other parts. No data; 8.5x11, 2 lbs. #Z80-90701-B620, NEW $4.50

DATA CASSETTE

DATA CASSETTE RECORDER, adaptable for use with most microcomputers having RS-232 input. Functions: Eject, Record, Rewind, Ready, Forward, Stop, Read-from-Tape, and Write-on-Tape. Tape speed 1-7/8 ips, 4-track 2-channel. Similar to Monroe Model 392. Requires -12 -3 +5 V. Includes 3' cable w/DB-25P plug & book. 8x5x3, 4 lbs sh. #DC-REC, unused, ~~$20.95~~ $15.

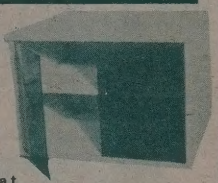


ARCADE JOYSTICK, p/o SUPER ZAXXON® by Sega; heaviest-duty metal stick with trigger and four SPST norm-open FIRE buttons. O/a 9x24x10, 18#. #AJS-SZ, NEW, $19.95

COMPUTER TOTE

LAPTOP COMPUTER CARRYING BAG, will fit NEC Ultralite, Tandy 100-102-1100FD, Zenith Minisport, & Toshiba T1000/SE. Heavy-duty padded black fabric bag has zipper and velcro keyboard access plus separate zipper expando compartment and two internal accessory pockets. Also adjustable straps and pads for hand, shoulder, or backpack tote. 12.5"Wx 4.5"Hx13"D, 4 lbs sh. #LT-TOTE, NEW, $22.95

VIDEO STORAGE CABINET



Clean, new, and "stackable" units look good in the home as well as the office. Dark plexiglass doors with magnetic-latches attractively "hide" contents of cabinets and large 31"W x22"H x26"D size easily stores video and audio equipment. Great for getting the kids' or the "old man's" junk out-of-sight! Constructed of off-white vinyl-covered 3/4" particle board; shipped unassembled with adjustable shelf, casters, and hardware. All parts pre-drilled for your assembly with screwdriver and hammer. Made for Xerox; 100 lbs sh, truck freight only. #0136790, NEW, ~~$85.50~~ ea; 3 for ~~$175~~. $135

ACTION JOYSTICK

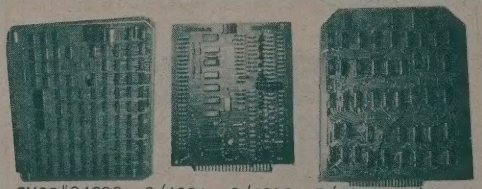
with fire button; eight direction action. Has 3.5 ft 6-conductor cord with DB-9 connector; rewire for computer/game machines. 3.6x4.6x 3.1, 2 lbs. #MA-ACT-JS, NEW, $2.95 ea; 2/$5.

TIME-TEMP SIGN PCB'S

SCR/TRIAC CONTROLLER BOARD with seven each 400 V 4 A SCR's and 200 V 6 A triacs. SCR's trigger the triac gates with a 50 m-sec 16 V pulse that holds all triggered triacs "on" until 24 VDC to SCR's is reset. Originally p/o time-temp sign. 6x6x4, 1 lb. #ASI-CMC27, w/schematic ~~$5.50~~ $3.

HOSPITAL INTERCOM BOX

INTERCOM CONTROL BOX an experimenters delight, this item was part of hospital desk-patient communications system. 8x5.6x2 aluminum box has Licon 10 amp lighted-push switches: two SP momentary 0.8" sq, one DP mom 0.8" sq and one SP mom 0.8"x1.5", a 1.6" dia 8 ohm speaker, volume control, and 7x4.5 circuit board. PC board has socketed Sigma 70R-Series 2 amp relays 2/4PDT and 1/DPDT, two Triad TY-47X 2000 ct: 16/8/4 ohm AF transformers, and socketed IC's LM324, 2/LM339, MC14001, MC14011, MC14028, MC14042, MC14585, 3/MOC319 ULN20D4; 4 lbs sh. #MID-IC-BX, used, ~~$9.95~~ $6.95

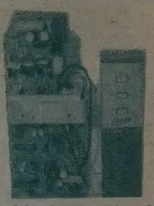


CMOS#84293: 3/4001, 2/4002, 5/4009, 2/4010 4/4011, 2/4012, 7/4013, 4021, 2/4022, 7/4023 2/4025, 2513 A 64x8x5 CHARACTER GENERATOR 7417. 9x7½, SH WT 2LBS #84293 ~~$5.95~~ $3.

CMOS-K1; 6/4008, 4/4009, 4/4011, 2/4012 7/4013, 9/4016, 5/4022, 2/4023, 4024, 5/4040 9x7½, SH. WT. 2 LBS #CMOS 84292 ~~$6.95~~ $3.25

#217E-224 w/socketed 8008 CPU, 10/1702 EPROM 8/2102 RAM, 6/3341 FIFO, AY5-1013 UART and 100+ 74-Series IC's; 20.5x14, 5 lbs. $18.00

EMERSON RC SET

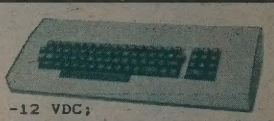


EMERSON MULTI-FUNCTION REMOTE CONTROL SET, intended for use with ceiling fan & light, but receiver circuit board and push-button remote transmitter should adapt to experimentation and your projects. Originally one button brightened light and other two controlled speed of special AC motor (not available). Circuit board outputs to motor are fixed voltages with sequence and voltages dependent upon positions of four switch DIP code switch. Sixteen codes possible; remote actuates sequence. Receiver is not isolated from power line so extra care is necessary when working with this device. Transmitter requires 9 V battery (not supplied). Hook-up info included; 2 lbs sh. #RC-5100/1, NEW, $14.95

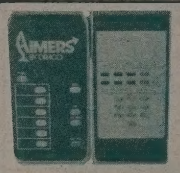
8048 CPU KEYBOARD

74-KEY MICROSWITCH KEYBOARD uses P8048 controller, an 8-bit CPU, ROM, RAM I/O package with 1X8 ROM, 64x8 RAM & 27 I/O lines. Comes in compact case with QUERTY format and functions Erase Display-Home, In Disp, Delete in Line, Insert, EOD Erase -EOL, Char Erase-Xfer, Ctl Page-Print, Unlock Msg-wait, Cursor. IC's 74HO4, 7442, 8048, 5.904 MHz xtal, cord w/DEC9S. 8.5x15x3, 5#. #2825479, ~~$8.95~~ $7

DATANETICS ASCII-encoded KEYBOARD, 75 keys including numeric pad; in aluminum enclosure. Requires -5, -12 VDC; pinouts and edge connector included. 2.5x20 x7.8, 8 lbs sh. #KY-DATA, used, ~~$24.95~~ $16.95



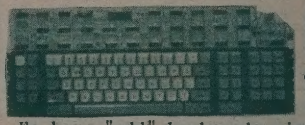
INFARED REMOTES



INFRARED REMOTE CONTROLS, Draco mfg remotes for satellite dish positioning and channel selection. Each has A-B-C-D-E-F Satellite Select, Up, Down, and Go To functions; requires 9 V transisitor battery. Cheap! Cheap to play with or use! NEW-not guaranteed; 2.8x5.8x1, 1 lb sh:
#IR-DR-AIM, "Aimers", $1.50 ea; 2 for $2.50
#IR-DR-CHAN, with Channel Select 1-2-3-4-5 -6-7-8-9-0, Mute & Seek; $1.95 ea, 2/$3.00

GREEN DISPLAY

9" DIAG GREEN VIDEO DISPLAY Elston mfg for Columbia Data portable; w/CRT and circuit board. Not composite; needs external horiz-drive & Vert-synch and reg +12 VDC in. 6 lbs. #DM30-098415-C31, w/schematic, $15.



KEYBOARD ? SURPRISE ?

We have "odd" keyboards similar to the one pictured leftover from the early-1980's when the establishment of the IBM PC® standard "killed" the market for them. We offer a mixed assortment of three keyboards of our choice with IC's etc for $10.00. Size & layout vary. See our old catalogs for an idea of what to expect; 10 lbs. #3-KBD-90, $10.00

AMP PRODUCTS CORPORATION

"CLOSED END SPLICE® " wire connectors; ideal for "breadboard" wiring projects when quick, solderless crimp-on connections are desired. Connect many wires together and/or to splice in others. Each accepts #22-10 wire size; nylon insulation opening: 0.375" dia. AMP #324067, 100 for $3.50; Box of 500, $10.

'DOORBELL' RECTIFIER

UNITRODE "DOORBELL" RECTIFIER, modular 1.75" dia high voltage rectifiers which can be screwed into one another (stacked) to attain desired rating. Base unit required which would plug into industrial tube socket; 1 lb sh each:
1N5600/UDB-5 rated 5 KV 2 amp: 1#. Used, $8.
SOLITRON C790-1 rated 10 KV; 1#. Unused, $12
#BASE-01B STANDARD 4-PIN BASE f/above, $6.75
#BASE-92B JUMBO 4-PIN BASE only, used, $6.50
*10 KV STACK, two 1N5600/UDB-5, 92B base, & 2"Lx1/2" dia plate cap rod. Used, $17.95 *

+ +

RECTIFIER

FULL WAVE BRIDGES:
#KBPC6005, 50 V 6 amp; used, $1.00
#KBH25005, 50 V 25 amps, used, $1.35
VARO #VTA200/S 200 V 25 amp bridge rectifier c.t cathode: stud mount, $1.00 ea
2N692 SCR 25 AMP 800 V stud nount, $3.00 ea

+ +

DIODES: 1 AMP 50 PIV 20/$1. 400 PIV 15/$1. 1000 PIV 10/$1.
MR752 6 AMP 200 V $1.10 MR754 400 V $1.25
1N3890 12 AMP 100 V 4/$3. 1N21 RF diode $1.
1N1184 or 1N1184RA, 35 A 100 V, used, $1.00
#30084-A, 84 AMP 300 V stud mount, used $5.

+ +

ZENERS: 1 WATT, 3.3, 3.9, or 4.1 V, 4/$1.
10.2, 11.6, or 12.0 V 3/$1.
1N2974B 10 watt 10 V 5% stud mount, $1.25
1N1357RA 10 watt 18 V 5% reverse pole $1.00

+ +

LM-317T 2-37 V reg $1.50 LM-340T12. $1.00
LM-318N op-amp, $1.25 MPSA14 NPN darl 5/$1
2N2222A NPN 3/$1. 2N4126 PNP lo-noise 6/$1
2N6346A triac, $.75 TIP120 NPN darl. $.75
TIP140 NPN darl. $.95 TIP142 NPN darl. $1.
TIP145 PNP darl. $1. 7808 8 V reg., 3/$1.

+ +

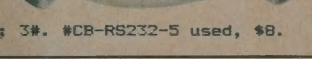
COPPERCLAD

SINGLE-SIDED copperclad phenolic circuit etching board, 4"x18": 1 lb. $.75 ea

LED'S

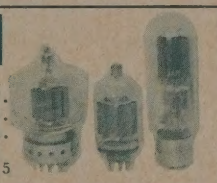
RED, T-1¾ size 8/$1. GREEN 6/$1. DARK RED, HP5082-4697, 6/$1.00
7-SEGMENT NUMERIC DISPLAY, common anode, lefthand decimal HP5082-7730 $1.
SLA-2 DISPLAY; .33", - or -1 and 1, 2/$1.00

RS-232 CABLE,



5 ft 25-conductor with male DB-25P and female DB-25S; 3#. #CB-RS232-5 used, $8.

4-400A 4D32



4-400A EIMAC or =, used-subject-to-your-test. $85.
4D32 Raytheon, unused. $75.
4CX250R, used-checked. $45.
203A, similar specs as 211 but used as modulator. $15

RT-384/ARC-54 AIRCRAFT TRANSCEIVER 30-69.95 MHz FM 10 Watts in 50 KHz steps & usable as homing receiver. Requires 27 DC input & separate control box (not available). 5.1x 7.8x15, 26 lbs sh. Used, $59.50
SCHEMATIC PACKET for RT-348, $10.

12 VDC MINI-PUMP

12 VDC IMMERSION PUMP, probably from auto/RV market; 3/8" dia outlet moves about 1 gallon/minute. Operates on higher voltages with increased flow rate for short periods: @ 24 VDC, 1.5 gal/min; @ 35 VDC, 2 gal/min. For non-flammable fluids only because fluid flows thru motor acting as lubricant. Use in fountains, solar water or science fair projects; 4"L X 1.5" dia, 2 lbs. #HAR-12V-IMP, NEW, $5.95; 2/$10.

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REPRODUCTIONS OF OLD SIG-CORPS BOOKS:
#TM11-487A, DIRECTORY OF SIGNAL CORPS... RADIO EQUIPMENT, Aug 1950. Four pages missing, 246 pp; 2 lbs sh. $18.95
SCHEMATIC DIAGRAMS OF SIGNAL CORPS GROUND RADIO EQUIPMENT, p/o TM11-310, 1943-1947; 32 vehicle & field radios; 228 pp. $24.95
** MORE BOOKS & MANUALS on page 23! **

VIDEO DISC PLAYER

SGT-100W RCA VIDEO DISC PLAYER with CED (capacitance) pick-ups; plays video discs like record player plays LP records. Unit is "play only" device and discs must be "flipped" to Side 2 for complete play. Functions FOR-REV for "Rapid Access" & "Visual Search" plus "Pause." This manually-loaded CED-type player will NOT play laser-type video discs. 6x17x16, 24 lbs sh. Used-operational, but some adjustments may be required! $44.50 $33.00

* *

#?-SGT-100W, "AS-IS complete--not tested", just as we find it! May be it will work and maybe it will not! NO RETURNS! $16.00

"USED" CED VIDEO DISCS for use with above; titles as recent as 1985. Write for list! Discs may have "blip-skips" during play. If intolerable, advise us within 10 days of intent to exchange; 2 lbs sh. Used, $10 each. 2-disc movies, $15.00/set.

* *

"AS-IS" DISCS, not tested--NO RETURNS! $5 ea

SEISMIC INTRUSION TX

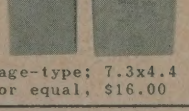
TRC-3A DETECTOR-TRANSMITTER KIT, four seismic detectors with have geophone stake on 8 ft cable; stakes placed into the earth to detect vibration of personel & equipment movement which is transmitted in pulses @ 134.5 MHz. Different pulse rates identify each detector. Sensitivity selectable 8, 15, 50, 70, & 130 ft; max transmit range 1 mile. Companion RC-3 receiver not available but any receiver covering frequency can monitor. Each require two 9 V batteries. Rugged sealed plastic construction; w/canvas bag. Each 3x5.5x1.8: 8#. Unused. $124.50/set. 129 MHz, $125/set.

BACKPACK FRAME

BACKPACK FRAME & HARNESS ASSEMBLY, originally used with PRC-47 radio but adaptable to other backpack uses. Consists of lightweight contoured 1/2" tubular steel 20"Hx17.5"W frame with padded canvas shoulder straps and lower back pad. Harness has 7"W x4"H leather retainer which slips over frame top. 4 lbs sh. #BPH-PRC47, used, $17.50

BACKPACK FRAME with 9.5x11x4.5 CANVAS RUCKSACK, pads & retainer: 5#. #RS-BHP, $24.50

NON-PCB HV CAPS



HIGH VOLTAGE NON-PCB OIL CAPACITORS, unused:
12 MF 2000 VDC, 5.3x3.6x3, 4 lbs. #CMLE126K20, $12.
4 MF 4000 VDC, 7x4.5x3.5, 6 #. Sprague #56289, $15.
12 MF 4900 VDC energy storage-type; 7.3x4.4 x2.8, 5 lbs. GE #28F2026 or equal, $16.00

FULL RANGE SPEAKER

HIGH QUALITY FULL-RANGE 4 OHM SPEAKER, 5.25" dia is nice auto size. Response 55-20000 Hz with 30 watts nominal (45 W max) rated. Has inner tweeter cone and large 3" dia x 7/8"H magnet; 3 lbs sh. #MA-SP5330, ~~$14.95~~ $12.

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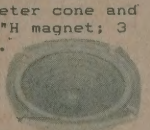


BUDGET FULL-RANGE SPEAKER, 4.6" dia, 8 ohms. Rated 5 watts, 85-12000 Hz response. Use as monitoring speaker. Magnet 2.4" dia x7/8"H, 2#. #MA-SP465, NEW, $6.

6 METER DIPLEXER

CU-2194/URC DIPLEXER, passive two-port notch filter and combiner network which allows simultaneous use of two transmitters, receivers or transceivers on a common antenna provided that operating frequencies are slightly offset. Usable over range of 30-76 MHz FM and intended for use with PRC-25-77 and VRC-12 transceivers; will work commercial 6-meter equipment Has NULL METER and separate TUNE controls and Fine-Coarse-Monitor MODE SWITCH, and RT1-RT2 BNC connections. Unit may also be used as man-portable relay terminal. Maximum RF power capability to each channel: 65 watts continuous. Operational isolation: 45 DB min @ 2 MHz separation. Insertion loss: 2 DB max; VSWR 2.0:1 max. 4x11x7, 10 lbs sh. UNUSED, ~~$89.50~~ $39.50; MANUAL, $10.

J-2491/GRC JUNCTION BOX, an upgraded J-668 used with R-392 and T-195/GRC-19 in GRC-46/VRC-29 RTTY system. Functions as terminating and interconnect piece in system. Has meters 0-100 MA DC and 0-50 VDC, MAIN POWER circuit breakers, BIAS 30 MA and LINE 60 MA Adjust, ON-OFF switches for TTY, Lights, Blower, Crypt, plus connections for all system components & U-79 connection for TRANS control. 6x16x7, 16# sh. Unused, $45.

10 MHZ REFERENCE OSC

EROS 10 MHZ XTAL CONTROLLED OSCILLATOR, sealed unit operates from 11-13.5 VDC; oven 20-30 VDC 700 ma. Output 0.6 V sinewave, 50 ohm load. Frequency adjustable 20 Hz min. Has LM2904 op-amp IC and NPN transistors MPSA18, MJE1102, UA108HM. Takes 15-cond edge connector. Originally reference osc in Hewlett-Packard equip (= HP-10544/#5955-00-571-9496) 2.5x3x2, 2 lbs. EROS-750-PE-20, NEW, $29.95
EDGE CONNECTOR for above, used, $2.

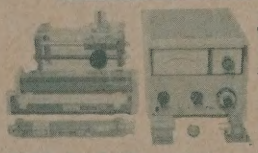
QRP CIRCUIT BOARD

SW-1 SHORT-WAVE CW EXCITER/TRANSMITTER by Ryan Communications; tiny 2"x4" high quality circuit boards cover active segments of ham radio low band frequencies: 3.5-4, 7.0-7.3, or 10.1-10.15 MHz @ 1.25 W CCS from 12 VDC power input into 50 ohms resistive. Output increases from 0.75 W-2.5 W as input is varied from 10-16 VDC. RF Harmonics > 30 DB. Has 2N3019 power amp transistor & double Pi net. Provision for HC-6 -33 xtal; norm-open contact-closure required for output. Specify: BAND 3.5-4.0 MHz, $32.95; BAND 7.0-7.3 MHz or BAND 10.-10.15 MHz, $29.95 ea.
JUST ARRIVED! SW-1 BAND 1.8-2.0 MHz. $44.00

* *

SET OF 4 SW-1 BOARDS (1 of ea freq.), $120.

SWR MEASURING SET



AN/USM-37D STANDING WAVE RATIO MEASURING SET for accurate SWR measurements over 3 to 12.4 GHz. Consists of Hewlett-Packard 415E SWR indicator, 444A untuned probe, 806B 3-12 GHz coaxial slotted section, 809B slotted carriage, H810B (7-10 GHz) & X810B (8.4-12 GHz) waveguide slotted sections, H & X281A waveguide to coax adapters, HX292B waveguide adapter, and fiberglass transit case. HP-415E is solid-state tuned audio amplifier designed for use with square-law detectors to determine SWR and attenuation. Range 70 DB in 10 & 2 DB steps. Meter scales for SWR: 1-4, 3.2-10 (NORM), 1-1.24 (EXPANDED) and DB: 0-10 (N) or 0-2 (EXP). Amp output 0-0.03 uv (N), 0-0.08 (EXP). Requires 115/230 VAC 50-400 Hz. HP415E 7.8x6.2x11; set wt 40# sh. Used-reparable w/book, $495.

Fair Radio Sales Co., Inc.
1016 E. EUREKA ST.
P. O. BOX 1105
Lima, Ohio 45802

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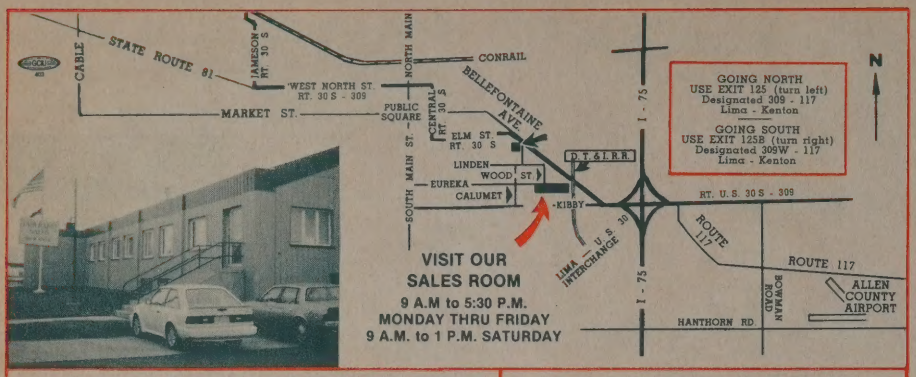


COLLINS KWM EQUIPMENT

obtained from the U.S. government. KWM-2A's and 30L1's have been tested for basic operation, but adjustments may be required. Assume that equipment does not conform to current FCC standards. "Winged"-label; "mint" or "like new" units not available.

KWM-2A TRANSCEIVER with PM-2 PORTABLE AC POWER SUPPLY operates in 3.4 - 30 MHz range non-continuous depending upon crystals installed @ 100 watts LSB-USB-CW max. Tunes in 200 KHz bands across set xtal frequency; includes xtals to cover 3.4-4.0, 7.0-7.4, 14.0-14.4, 14.8-15, 21.0-21.6, and 28.5-28.7 MHz & provision for 14 others. Sensitivity 0.5 uv for 10 DB S+N:N ratio. Selectivity 2.1 KHz @ 6 DB, 5.3 KHz @ 60 DB. Impedances: 50 ohm RF input; 4 or 500 ohm audio out. With PM-2, requires 115/230 VAC 50-60 Hz. 7.8x14.8x13.3 +4"D (PM-2), 38 lbs sh. $475.

KWM-2A less PM-2, used-reparable, $395.00

COLLINS 30L1 RF POWER AMP, manually tuned five bands 3.5, 7.0, 14, 21 and 28 MHz. Amplifies 70 watt drive signal of KWM-2A transceiver to 500 watts PEP using four 811A tubes. Metered 1 AMP/2 KV DC; "Winged" label. Requires 115/230 VAC 50-400 Hz. 7.8x14.3x13.3, 44#. Used-reparable, $575

+ +

30S1 1 KW POWER AMP f/ KWM-2A, less 4CX1000A tube; 200#. Used, complete-not tested, $900

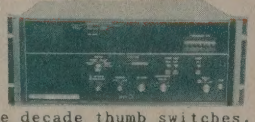
PARTS for 30S1 removed from equip: * WRITE * 180S1 ANTENNA TUNER, manual 1 KW pi-network tuner for S-Line; 16 lbs sh. Used, $200.00

MILITARY MANUAL SET for KWM-2A, 30L1, 30S1 & accessories; TO 31R2-4-183-2/-3, repro, $30.

516F2 AC POWER SUPPLY for 32S and KWM-Series transmitters; usable with or without 30L1 power amp. Complete with cabinet, 5U4 and 5R4 tubes, and cable. 10x7.5x11, 33 lbs sh. Specify "winged" or "round" label. used. $125.

516F2 with "Rockwell" label. used. $150.00

HF-8050 RX



COLLINS HF-8050 RECEIVER, 100 KHz to 29.99999 MHz AM-ISB-USB set using 7-place decade thumb switches. Freq-Stablility $\gtrsim 5 \times 10^{-7}$. Max-sensitivity 0.35 uv for 10 DB (s+n)/n. Bandwidths: 16 KHz, 2.7 KHz USb & ISB with space for 5 more filters. IF/Image rejection: 100 DB. Has built-in speaker, signal meter, phone jacks. Requires 100/115/215/250 VAC 47-63 Hz. 6.8x19x20.8. 40 lbs sh. Used-operational, $1495.

HARDLINE CONTACTOR

JENNINGS SPST VACUUM RELAY-CONTACTOR for 3-1/8" (78 mm) dia hardline coaxial hook-up; rated 25 KW @ 30 MHz; 20 KV peak test; actuator 19-29 VDCI. 4x8x3.8, 7 lbs sh. #RC10A5225A24, unused, $125.00

WEAVER D6 SCOPE

Quality 6 power scope fits common rifle mounts. Unfortunately scope does not have cross-hairs. Still it is a nice low-cost spotting scope! 12.3" long, 2 lbs sh. NEW, $14.95

3 KV ARRESTOR

ABB Type LV SURGE ARRESTOR, ceramic unit rated 3 KV; 9.3"Lx3" dia. Includes iron mount bracket, ground wire & strap, hardware; 7 lbs sh. #ABB-LV4/91, NEW $14.95

SPARES BOX

CY-684 EMPTY SPARES BOX for GRC-3--8 radio; can hold 26/7-pin mini, 5/GT-tubes & vibrator. Alumnimum w/hinged top & latch; 3x10.3x5, 3#. Used. $7.

LIMITED SUPPLY RADIOS

AN/FRR-59A SSB RECEIVER, 2 to 32 MHZ AM-LSB-USB-CW in four bands; incremental tuning in 500 Hz steps + vernier. LSB & USB separate or simultaneous; 1 MHz calibrator. Built-in speaker. Large complex, difficult 2-deck set uses 7/9-pin mini-tubes. Requires 105-125 VAC 60 Hz; cables included. 25.8x22x24. 300# sh. Used-not tested. $400.

MANUAL for FRR-59A, partial repro, $45.00

BC-1306 RADIO SET, part of SCR-694; predecessor of AN/GRC-9. Separate receiver & xmitter sections in common case. Covers 3.8 - 6.5 MHz AM-CW; 8.5 watts AM / 25 W CW max. Accessories shared with GRC-9 page 19. 9x15x8, 25 lbs. Gov't-recond), $195.

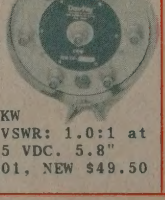
MANUAL, partial repro, $15.

AN-160 WIRE ANTENNA, used, $15.

FT-482 MOUNT, 6 lbs; used, $10.

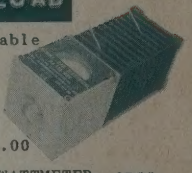
AN/GRR-5 RECEIVER, 1.5 to 18 MHz AM-CW in four bands continuously tuned or ten preset channels. R-174 receiver & PP-308 power supply housed in cabinet. R-174 has 455 KHz IF, calibrator, BFO, and 7 tubes. PP-308 has 4"speaker and powers R-174 from 6, 12 or 24 VDC or 115 V 60 Hz. 13.2x12.1x8.1, 60#. Used-checked w/mount, $200. MANUAL, $7.50

DOW KEY SP6T RELAY



DOW-KEY SINGLE-POLE SIX-POSITION ANTENNA RELAY, non-shorting unit has Common center TNC connection and A-B-C-D-E-F TNC connections for switching antennas, xmitters or receivers up to 500 MHz. Power rating 1 KW to 200 MHz, 750 W at 500 MHz. VSWR: 1.0:1 at 50 MHz; 50 ohm imped. Coil 26.5 VDC. 5.8" dia X 2.8"D; 3 lbs. DK#71-230301, NEW $49.50

DA-189 DUMMY LOAD



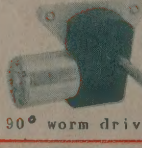
DA-189/GRC DUMMY LOAD, portable 50 ohm unit operates over 600 to 1850 MHz range @ 40 watts maximum. Output is indicated on 3.5" dia meter type C input connection. 4x 4x10, 9 lbs sh. Unused, $75.00

ME-11C/URM-43C WATTMETER, operates over 30 to 600 MHz at power range of 2 to 60 watts. Power scales 0-15 or 0-60 watts read on 3.5" dia meter. Usable as dummy load to 900 MHz. 51.5 ohm input; N connection. Absorption-type oil-filled unit; transit case included. 4.4x6.5x8, 10#. Used, $79.50

PORTABLE AMMETERS

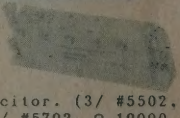
BITRONICS STEEL-SIX 0-5-20-50 DC AMMETER with internal shunts for direct measurement on 4.5" wide mirrored scale; scale terminals on the side. Steel enclosure; 6x6.5x3.5, 5 lbs sh. #BIT-52050ADC, used, $34.95

DC GEAR MOTOR



Powerful reversible motor produces strong torque at 6/12/24 VDC case common turning 24/50 /100 RPM respectively. 4.3x6 x2.8 plus 4.5"Lx5/16" dia 90° worm drive shaft: 3#. #GM-3455, NEW $15.

70 MHZ BANDPASS STRIP



70 MHz GOLD-PLATED BANDPASS FILTER, 5 cavities cast in strip. Each 0.9"x0.9"x2.1" section has coil deposited on glass and a gold-plated Johanson low-noise air capacitor. (3/ #5502, Q 1500 @ 100 MHz 1-20 pf; 2/ #5702, Q 10000 @ 100 MHz 0.6-6 pf.) BNC input/output conn. O/a 2.6x6.5x1.1, 2#. #956417. used-exc, $20.